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Water resources data for the 1973 water year for Massachusetts, New Hampshire, Rhode Island and Vermont consist of records of stage, discharge, and water quality of streams; contents and water quality of lakes and reservoirs. This report contains discharge records for 226 gaging stations; stage only records for 2 gaging stations; stage and contents for 3 lake and reservoirs; water quality for 26 gaging stations. Also included are 75 low-flow and 117 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Massachusetts, New Hampshire, Rhode Island, and Vermont.

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for
Massachusetts
New Hampshire
Rhode Island
Vermont
Water Year 1973

Part 1. Surface Water Records

Part 2. Water Quality Records

MARCH 3, 1849

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DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER DATA REPORT MANHRIVT-73-1

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1975

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[*Symbols after station name designate type of data:* (c), *chemical;* (*t*), *water temperature;* (*s*), *sediment*]

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WATER RESOURCES DATA FOR MASSACHUSETTS, NEW HAMPSHIRE RHODE ISLAND, AND VERMONT, 1973

PART 1. SURFACE-WATER RECORDS
PART 2. WATER-QUALITY RECORDS

INTRODUCTION

Water-resources data for the 1973 water year for Massachusetts, New Hampshire, Rhode Island, and Vermont, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface and ground water and precipitation, are given in this report. In Part 1, records are included for 229 gaging stations of which 223 are streamflow discharge stations and 6 are reservoir or lake stations; also included are records of monthend contents for 41 reservoirs and records for 75 low-flow partial-record stations, 118 crest-stage partial-record stations, and 70 miscellaneous sites. In Part 2, records of chemical analyses and water temperature are given for 136 surface-water sites of which 26 are continuous-record stations, 16 are partial-record stations, and 94 are miscellaneous sites; records of suspended sediment are given for 19 partial-record stations. Records of chemical analyses also are given for 12 miscellaneous ground-water sites and 1 precipitation site. Locations of gaging and water-quality stations are shown in Figure 1. A few pertinent stations (not included above) in bordering States and Province of Quebec are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of C. E. Knox, district chief, succeeded by J. A. Baker. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts, New Hampshire, Rhode Island, and Vermont.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State- or District-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 8, 9, and 11.

COOPERATION

The U.S. Geological Survey and organizations of the States of Massachusetts, New Hampshire, Rhode Island, and Vermont have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1954. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

Massachusetts: State Water Resources Commission, Arthur W. Brownell, chairman, C. F. Kennedy, director and chief engineer of Division of Water Resources, and T. C. McMahon, director of Division of Water Pollution Control; State Department of Public Works, Bruce Campbell, commissioner, P. W. McHugh, research and materials engineer, and F. C. Schwelm, deputy chief engineer of Division of Waterways; Metropolitan District Commission, John Sears, commissioner, Alan Grieve, Jr., director and chief water-supply engineer of Water Division, and F. T. Bergin, chief engineer of Construction Division.

New Hampshire: State Water Resources Board, G. M. McGee, chairman.

Rhode Island: State Department of Natural Resources, Dennis J. Murphy, director, C. B. Dunwoody, chief of Division of Planning and Development; State Department of Transportation, R. J. Rahill, director, F. H. Dutra, chief of highway planning division; State Water Resources Board, A. A. DiMartino, chairman, city of Providence, Department of Public Works, L. P. McGarry, director.

Vermont: State Department of Water Resources, Gordon R. Pyper, commissioner; State Department of Highways, J. T. Gray, commissioner.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records published herein for 46 gaging stations, and by the Environmental Protection Agency, for 10 water-quality stations.

Assistance in collecting records was also furnished by New England Power Co. and Green Mountain Power Corp.

Organizations that supplied data are acknowledged in station descriptions.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States), and the records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated as "international gaging stations."

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See also table for converting English Units to International System (SI) Units on page 5.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, about 646,000 gallons, approximately 1.9835 acre-feet, or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water compositions, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate incubation membrane filter method.

Color is expressed in units of the platinum-cobalt scale proposed by Hazen (1892, p. 427-428). A unit of color is produced by one milligram per litre of platinum in the form of the chloroplatinate ion.
The extent to which water is colored by material in solution is reported as part of the water analysis because a significant color in water may indicate the presence of organic material that may have some bearing on the dissolved solids content.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.2832 cubic metres per second.

Curie is a unit for measuring radioactivity. One curie equals that quantity of any radioactive isotope undergoing 3.7×10^{10} disintegration per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane and enclosed by a topographic divide, from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G. H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging-station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 4. Concentration of suspended sediment also is expressed in milligrams per litre and is based on the weight of sediment per litre of water-sediment mixture.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

pH is a symbol denoting the relative concentration of hydrogen ions in a solution; pH values range from 0 to 14 -- the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})*	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

* Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Picocurie (PC) is a unit for measuring radioactivity. One picocurie is equivalent to 1 trillionth of a curie. See Curie.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time flowing in a channel.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published District annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

Table 2.--Factors for Converting English units to
International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	*litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [$(ft^3/s)\cdot d$]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (t)

*The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in UG/L (micrograms per litre), radium as radium-226 in PC/L (picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 (SR90/Y90) or cesium-137 (CS-137) in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre. Gross alpha and beta radioactivity associated with the fine-grained (silt and clay-sized) sediments in the samples are also determined.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. Downstream order station numbers are not assigned to wells and miscellaneous sites where only random discharge measurements are made. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01127880, which appears just to the left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "127880." The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basins) and Part 4 (St. Lawrence River basin). In this report the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude; the next 7 digits denote the degrees, minutes, and seconds of longitude; and the last 2 digits is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well-numbering system is used in this report. All wells are numbered consecutively within each town.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consists of records of stage and measurements of discharge of streams, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from a water-stage recorder that gives either a tape punched at 15-, 30-, or 60-minute intervals or a continuous graph of the fluctuations. Measurement of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables; then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and gage observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At one station the stage-discharge relation is affected by changing stage; at this station the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by hydrologists and gage observers, and comparable records of discharge for other stations in the same or nearby basins.

For some lake or reservoir stations, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily reservoir stages may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Tables of daily mean gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or stage, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge, the maximum gage height, and the minimum discharge if there is little or no regulation are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge if it is abnormally low). In the first paragraph, headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES," headed "Period of record," the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder (digital or graphic), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, to the availability of Water Quality records, and to a recording rain gage at the gaging station is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, on the capacity, outlet works, and spillway, and on the purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN.").

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes a significant high period. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for most stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily stage is given. A skeleton table of capacity at given stages is published for some reservoirs for which records are published on a daily basis.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of the discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control in unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, evaporation, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled "Surface Water Supply of the United States" there is a list of the numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Massachusetts, New Hampshire, Rhode Island, and Vermont for the period October 1960 to September 1965 are in Water Supply Papers 1901, 1902, and 1912.

Two series of summary reports entitled "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950, and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for the stations in this district through September 1950 are compiled in Water-Supply Papers 1301, 1302, and 1307, and for October 1950 to September 1960, in 1721, 1722, and 1727.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

Collection and examination of data

Water-quality data on chemical, physical, and biological characteristics of surface and ground water were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals.

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations at which continuing records are collected. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality data are presented for chemical, biological, and microbiological constituents, water temperature, and fluvial sediment. Chemical data include concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, pH, and radioactivity. Biological data include qualitative and quantitative analyses of plankton and bottom organisms. Microbiological data include quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent daily maximum, minimum, and mean temperature. Fluvial-sediment data are given for suspended-sediment discharges and concentrations.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm), and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table below.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 3, and table for converting English Units to SI Units, p. 5).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Goerlitz and Brown, and Lamar, Goerlitz, and Law. The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based on hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of most discharge measurements for surface-water stations. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where monitors are installed, the record consists of daily maximum, minimum, and mean temperature.

Sediment

Suspended-sediment concentrations are determined periodically from samples collected by using depth-integrating samplers. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow when predicting long-term sediment-discharge characteristics of the stream.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Massachusetts, New Hampshire, Rhode Island, and Vermont are listed below. Data for the North Atlantic slope basins are given in Part 1; data for the St. Lawrence River basin are given in Part 4.

Water-supply paper numbers and parts, water years 1953-71

Year	Part 1	Year	Part 1	Part 4
1953	1290	1963	1941	-
1954	1350	1964	1954	-
1955	1400	1965	1961	-
1956	1450	1966	1991	-
1957	1520	1967	2011	2012
1958	1571	1968	2091	2094
1959	1641	1969	*2141	*2144
1960	1741	1970	*2151	*2154
1961	1881	1971	*2161	*2164
1962	1941			

* In preparation.

HYDROLOGIC CONDITIONS

At the beginning of the water year, runoff was in the deficient range in parts of central New Hampshire and northern Vermont, in the high-normal or excessive range in Rhode Island and southeastern Massachusetts, and in the low-normal range elsewhere in the district.

Cumulative runoff for October to March was excessive (in the upper quartile of record) throughout the district. The highest December runoff for the period of record occurred at Branch River at Forestdale, R.I., and Batten Kill at Arlington, Vt. (where records began in February 1940 and October 1928, respectively).

In March, temperatures were extremely mild. The winter snowpack, which generally had been above average in Vermont, New Hampshire, and most of western Massachusetts, was depleted rapidly during the month. By the end of March, no snowmelt potential of consequence remained in the district. In Vermont, New Hampshire, and central and western sections of Massachusetts, March runoff was in the excessive range. In Rhode Island and eastern Massachusetts, where snowcover had virtually disappeared by the end of February, runoff was in the low normal or deficient range. Although March runoff in much of the district was the highest since 1953, snowmelt was orderly with no outstanding peak discharges, and only the usual lowland flooding was experienced.

Cumulative runoff for April to September was excessive in Rhode Island, eastern Massachusetts, most of New Hampshire, and central and northern sections of Vermont; it was normal elsewhere in the district. The highest runoff for the indicated month for the period of record (which began at dates indicated) occurred as follows: for June, Passumpsic River at Passumpsic, Vt., White River at West Hartford, Vt. (July 1915), and Pemigewasset River at Plymouth, N.H. (October 1903).

Torrential rains June 27-30 caused severe flooding on June 30 and July 1 in much of Vermont and north central New Hampshire. The peak discharge at some gaging stations in this area was the greatest since the flood of March 1936 and at one gaging station was the greatest since the 1927 flood. Another intense rainstorm also caused severe flooding on July 4, 5 in localized areas in central New Hampshire and southern Vermont and produced peak discharges on some small streams which exceeded those of June 30, July 1.

Cumulative runoff for the water year was excessive throughout the district. The highest water-year runoff for their respective periods of record occurred at Pemigewasset River at Plymouth, N.H., Branch River at Forestdale, R.I., and Passumpsic River at Passumpsic, Vt.

At the end of the water year, runoff was in the normal range except in northeastern Vermont, where it was excessive.

Figure 1 on page 16, for which records of three, long-term, index gaging stations were used, shows a comparison of the monthly and yearly mean discharge for the 1973 water year with the median discharge for the period 1941-70.

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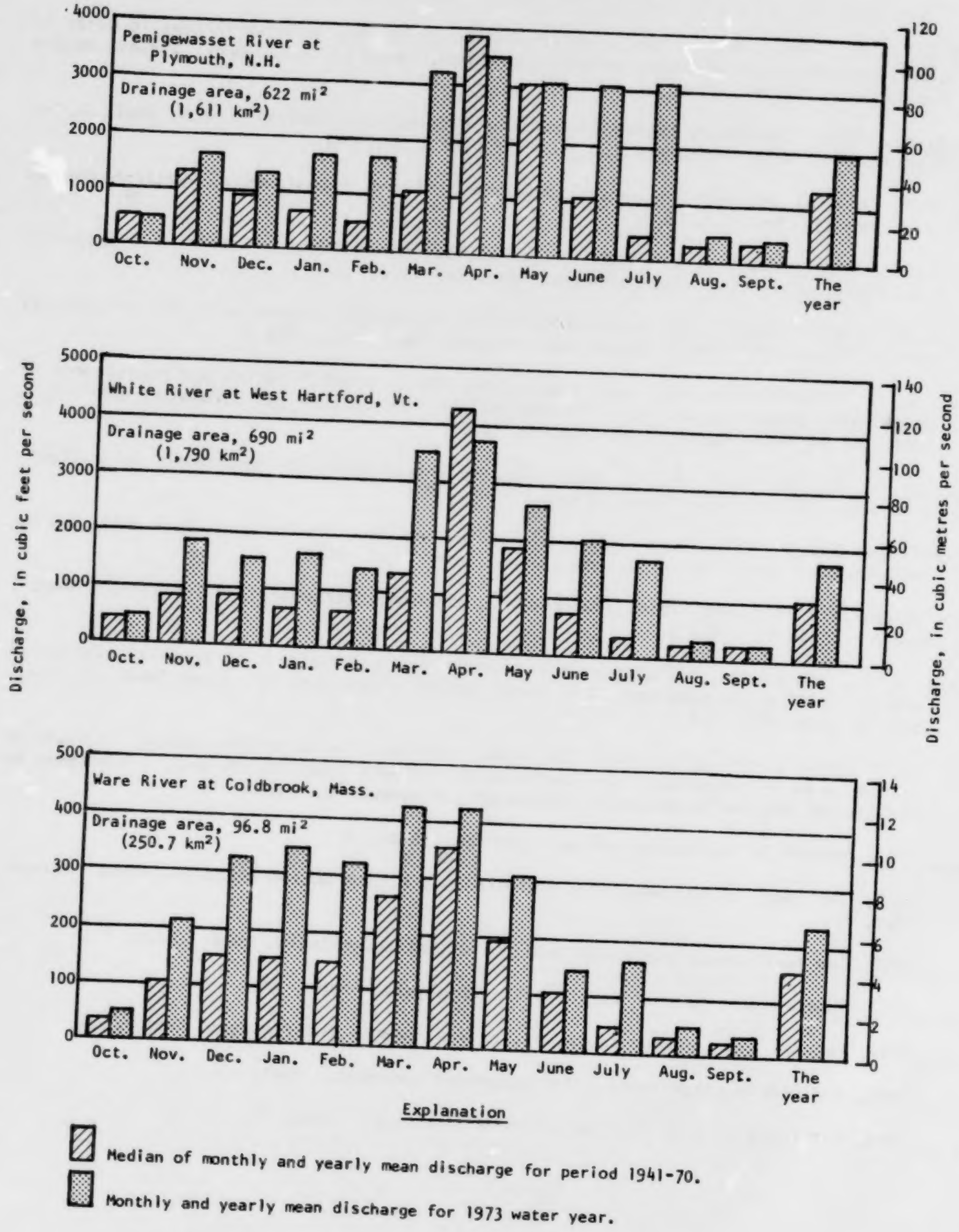

Figure 1.--Comparison of discharge at three long-term index gaging stations during 1973 water year with median discharge for period 1941-70.

PART 1. SURFACE WATER RECORDS

NORTH ATLANTIC SLOPE BASINS

ANDROSCOGGIN RIVER BASIN

01052500 Diamond River near Wentworth Location, N.H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (389 m) from topographic map.

AVERAGE DISCHARGE.--32 years, 342 ft³/s (9.685 m³/s), 30.36 in/yr (771 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,200 ft³/s (119 m³/s) Apr. 23 (gage height, 7.85 ft or 2.393 m); minimum, 37 ft³/s (1.05 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 8,630 ft³/s (244 m³/s) June 16, 1943 (gage height, 10.66 ft or 3.249 m), from rating curve extended above 3,900 ft³/s (110 m³/s); minimum, 6.8 ft³/s (0.19 m³/s) Aug. 27, 28, 1949, Sept. 1, 1952.

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	124	185	375	640	135	1.090	990	918	2.340	67	67
2	81	123	172	725	1.050	130	1.140	898	649	1.290	181	60
3	57	336	193	575	2.100	130	797	1.200	496	895	240	60
4	47	473	239	375	1.900	130	627	1.780	407	813	196	56
5	42	269	257	295	1.100	130	674	1.060	370	1.170	154	53
6	39	203	354	255	750	150	557	771	337	669	148	494
7	45	178	941	225	550	140	460	674	297	465	94	834
8	239	179	593	210	400	275	414	568	269	354	78	329
9	177	528	454	190	320	650	365	541	237	276	78	190
10	131	587	360	175	280	530	351	554	280	225	79	155
11	95	369	280	170	250	460	335	544	218	333	364	128
12	86	289	209	160	225	700	297	695	264	270	240	112
13	123	263	236	150	215	1.200	280	635	450	203	132	99
14	116	250	322	145	205	1.000	266	500	321	185	100	88
15	120	218	291	140	195	850	300	414	262	162	101	95
16	129	166	254	135	190	800	502	475	629	210	89	100
17	132	133	225	135	180	1.500	1.490	492	1.340	151	73	92
18	154	147	210	135	175	2.500	2.350	405	581	126	62	268
19	113	133	200	145	170	1.680	2.630	690	368	112	64	839
20	86	136	190	300	160	829	2.570	642	278	102	59	342
21	76	133	185	1.020	160	580	2.040	1.120	231	150	50	248
22	81	112	180	900	155	492	2.530	1.590	1.020	112	49	244
23	103	121	170	1.250	150	426	3.860	1.050	587	88	191	1.560
24	258	140	165	1.750	150	406	3.120	691	366	76	112	734
25	322	131	160	1.400	145	395	1.980	568	367	67	69	412
26	208	138	155	1.200	140	480	1.360	490	395	64	55	299
27	157	503	155	1.000	140	519	1.030	424	294	71	53	242
28	134	346	150	850	135	467	1.830	423	278	293	261	211
29	151	248	150	770	------	472	2.560	634	289	136	226	188
30	149	165	150	710	------	507	1.680	667	2.050	101	113	168
31	153	------	150	660	------	793	------	588	------	76	86	------
TOTAL	3.948	7.141	7.935	16.525	12.230	19.456	39.485	22.873	14.848	11.585	3.864	8.767
MEAN	127	238	256	533	437	628	1.316	738	495	374	125	292
MAX	322	587	941	1.750	2.100	2.500	3.860	1.780	2.050	2.340	364	1.560
MIN	39	112	150	135	135	130	266	405	218	64	49	53
CFSM	.83	1.56	1.67	3.48	2.86	4.10	8.60	4.82	3.24	2.44	.82	1.91
IN.	.96	1.74	1.93	4.02	2.97	4.73	9.60	5.56	3.61	2.82	.94	2.13

CAL YR 1972 TOTAL 137.191 MEAN 375 MAX 4.450 MIN 29 CFSM 2.45 IN 33.36
WTR YR 1973 TOTAL 168.657 MEAN 462 MAX 3.860 MIN 39 CFSM 3.02 IN 41.01

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-23	1900	7.85	4,200				

01053500 Androscoggin River at Errol, N.H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 mi² (2,707 km²).

PERIOD OF RECORD.--January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE.--68 years, 1,884 ft^3/s (53.35 m^3/s), 24.48 in/yr (622 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 10,500 ft^3/s (297 m^3/s) July 2 (gage height, 7.47 ft or 2.277 m); minimum daily, 979 ft^3/s (27.7 m^3/s) Jan. 23.

Period of record: Maximum daily discharge, 16,100 ft^3/s (456 m^3/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 ft^3 or 796,000,000 m^3), with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,010	1,670	1,470	1,630	2,160	2,160	2,220	3,380	5,060	9,870	1,840	1,890
2	1,980	1,660	1,510	1,550	2,050	2,110	2,420	2,800	4,360	10,200	1,710	1,820
3	1,940	1,590	1,490	1,480	1,600	2,070	2,480	3,470	2,680	8,590	1,340	1,970
4	1,940	1,530	1,530	1,500	1,480	2,050	2,430	6,020	2,250	7,550	1,460	2,010
5	1,960	1,520	1,530	1,530	1,560	2,010	2,390	6,720	2,410	8,080	1,510	1,990
6	1,980	1,580	1,360	1,590	1,750	2,060	2,240	6,320	2,370	5,640	1,550	1,840
7	1,850	1,580	1,200	1,730	1,850	2,060	2,120	2,960	2,180	3,210	1,670	1,570
8	1,630	1,580	1,160	1,850	1,760	1,920	1,640	1,540	2,020	2,710	1,750	1,590
9	1,670	1,470	1,010	1,850	1,840	1,590	1,600	1,360	1,660	1,920	1,810	1,750
10	1,840	1,240	1,100	1,750	1,940	1,360	1,620	2,750	1,510	2,150	1,890	1,820
11	1,940	1,180	1,310	1,730	2,020	1,440	1,710	3,400	1,750	2,110	1,960	1,880
12	1,970	1,240	1,470	1,680	2,070	1,640	1,840	3,150	2,060	2,050	1,900	1,930
13	1,980	1,380	1,370	1,660	2,070	2,160	1,860	2,920	3,330	1,760	1,840	1,920
14	1,940	1,470	1,380	1,710	2,080	2,480	1,860	1,760	2,090	1,740	1,900	1,890
15	1,930	1,430	1,330	1,670	2,020	2,290	1,820	1,320	2,670	1,850	1,940	1,820
16	1,940	1,520	1,330	1,590	2,010	2,160	1,800	2,740	3,460	1,990	1,930	1,820
17	1,960	1,560	1,440	1,590	2,030	2,230	1,700	2,590	5,590	2,110	1,890	1,930
18	1,970	1,550	1,490	1,620	2,070	2,570	2,340	2,600	5,190	2,070	1,880	1,670
19	1,980	1,560	1,460	1,590	2,080	2,350	3,040	2,900	2,350	2,240	1,820	1,550
20	1,960	1,560	1,470	1,470	2,050	2,830	3,530	2,800	2,260	2,200	1,850	1,640
21	1,930	1,570	1,410	1,380	2,020	2,390	3,740	4,840	1,910	2,190	1,900	1,760
22	1,940	1,580	1,410	1,320	2,010	1,940	3,840	6,850	3,670	2,220	1,920	1,630
23	1,900	1,580	1,370	979	1,970	1,730	4,260	7,330	4,440	2,230	1,900	1,460
24	1,860	1,620	1,340	1,270	1,980	2,000	4,640	5,860	3,820	2,310	1,920	1,530
25	1,850	1,590	1,350	1,420	2,080	2,150	3,310	4,480	2,770	2,310	1,960	1,670
26	1,810	1,470	1,370	1,440	2,200	1,760	1,630	4,380	2,730	2,350	1,960	1,800
27	1,800	1,270	1,410	1,610	2,280	1,560	1,140	3,770	2,700	2,350	1,930	1,840
28	1,810	1,310	1,480	1,750	2,200	1,570	1,310	3,620	2,540	2,020	1,840	1,810
29	1,810	1,330	1,550	1,770	------	1,570	3,900	3,400	3,770	1,880	1,820	1,820
30	1,790	1,470	1,590	1,860	------	1,560	3,430	2,360	4,430	2,120	1,930	1,860
31	1,750	------	1,660	2,050	------	1,870	------	2,220	------	2,010	1,920	------
TOTAL	58,620	44,660	43,350	49,619	55,230	62,140	73,850	112,610	90,030	103,030	56,440	53,480
MEAN	1,891	1,489	1,398	1,601	1,973	2,005	2,462	3,633	3,001	3,324	1,821	1,783
MAX	2,010	1,670	1,660	2,050	2,280	2,850	4,640	7,330	5,590	10,200	1,960	2,010
MIN	1,630	1,180	1,010	979	1,480	1,360	1,140	1,320	1,510	1,740	1,340	1,460
MEAN†	383	1,209	1,277	1,487	1,387	2,898	7,316	4,217	3,093	2,073	533	1,185
CFSM†	.37	1.16	1.22	1.42	1.33	2.77	7.00	4.04	2.96	1.98	.51	1.13
IN.†	.42	1.29	1.41	1.64	1.38	3.19	7.81	4.66	3.30	2.28	.59	1.26

CAL YR 1972 TOTAL 695,870 MEAN 1,901 MAX 6,020 MIN 1,010 MEAN† 2,035 CFSM† 1.95 IN† 26.50
WTR YR 1973 TOTAL 803,059 MEAN 2,200 MAX 10,200 MIN 979 MEAN† 2,251 CFSM† 2.15 IN† 29.23

† Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.

01054000 Androscoggin River near Gorham, N.H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,363 mi² (3,530 km²).

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

AVERAGE DISCHARGE.--60 years, 2,446 ft³/s (69.27 m³/s), 24.37 in/yr (619 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,500 ft³/s (326 m³/s) July 2; minimum daily, 1,690 ft³/s (47.9 m³/s) Dec. 17.
Period of record: Maximum daily discharge, 20,000 ft³/s (566 m³/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 ft³/s (22.5 m³/s) Mar. 15, 1948.

REMARKS.--Records excellent except those for period of no gage-height record, which are good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 ft³ or 796,000,000 m³), with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,120	1,970	1,910	2,130	2,520	2,510	3,950	5,050	4,840	11,000	2,100	2,030
2	2,090	1,950	1,760	2,230	2,690	2,440	4,680	4,490	6,240	11,400	2,450	2,010
3	2,080	1,960	1,870	2,160	2,810	2,390	4,520	4,320	4,550	9,800	2,280	1,980
4	1,990	1,970	1,850	2,010	2,830	2,360	4,140	6,510	3,160	8,900	2,000	2,090
5	2,040	1,920	1,880	2,060	2,590	2,380	4,020	9,050	3,040	8,500	2,100	2,090
6	2,050	1,880	1,930	1,930	2,470	2,400	3,650	7,970	3,190	7,600	1,950	2,120
7	2,150	1,960	2,250	1,880	2,590	2,460	3,300	6,560	2,940	4,200	1,930	2,410
8	2,190	1,890	2,140	1,990	2,520	2,640	2,920	3,000	2,660	3,600	1,950	1,940
9	2,000	2,140	1,930	2,130	2,380	2,850	2,520	2,390	2,480	2,800	2,000	1,860
10	1,950	2,250	1,700	2,190	2,410	2,720	2,390	2,590	2,210	2,500	1,980	1,980
11	2,060	1,890	1,700	2,040	2,460	2,370	2,470	3,990	2,080	2,600	2,090	1,980
12	2,130	1,750	1,750	2,030	2,500	2,600	2,440	4,450	2,480	2,400	2,230	2,010
13	2,160	1,800	1,950	1,960	2,540	3,550	2,470	3,880	4,670	2,250	2,040	2,030
14	2,150	1,900	1,890	1,960	2,510	4,150	2,460	3,330	4,870	2,100	2,020	2,000
15	2,140	1,960	1,820	2,100	2,490	3,760	2,510	2,420	3,750	2,200	2,080	2,020
16	2,130	1,900	1,730	2,030	2,460	3,510	2,740	2,450	4,450	2,300	2,090	1,940
17	2,120	1,880	1,690	1,970	2,390	4,020	3,710	3,590	8,800	2,400	2,040	1,970
18	2,150	1,900	1,800	1,980	2,390	6,470	5,110	3,420	8,320	2,300	2,010	2,090
19	2,230	1,860	1,880	2,050	2,470	5,760	6,080	4,190	5,320	2,400	2,070	2,090
20	2,160	1,900	1,880	2,260	2,440	4,820	6,620	4,060	3,340	2,470	2,020	1,870
21	2,050	1,870	1,820	2,420	2,410	4,060	6,240	5,060	2,980	2,470	1,990	1,910
22	2,110	1,880	1,810	2,250	2,390	3,320	6,540	8,930	3,660	2,430	2,030	1,980
23	2,130	1,830	1,790	2,520	2,350	2,760	7,940	9,140	5,680	2,380	2,060	2,000
24	2,170	1,870	1,760	2,760	2,320	2,500	7,610	8,470	5,370	2,400	2,030	1,970
25	2,140	1,890	1,720	2,650	2,330	2,900	6,750	6,050	4,110	2,500	2,020	1,890
26	2,110	2,090	1,740	2,530	2,470	3,080	4,180	5,570	3,560	2,460	2,070	1,950
27	2,040	2,330	1,760	2,350	2,550	2,820	2,680	4,900	3,380	2,600	2,050	2,020
28	1,980	2,100	1,780	2,410	2,550	2,680	3,170	4,360	3,340	2,900	2,090	2,010
29	2,080	1,850	1,820	2,450	------	2,640	5,580	4,480	3,240	2,250	2,040	1,970
30	2,190	1,830	1,860	2,340	------	2,650	6,760	4,160	5,770	2,350	2,000	1,980
31	2,120	------	1,910	2,440	------	3,040	------	2,980	------	2,280	2,080	------
TOTAL	65,210	58,170	57,100	68,210	69,830	98,630	130,550	150,810	124,530	120,740	63,890	60,190
MEAN	2,104	1,939	1,842	2,200	2,494	3,182	4,352	4,865	4,151	3,895	2,061	2,006
MAX	2,230	2,330	2,250	2,760	2,830	6,470	7,940	9,140	8,800	11,400	2,450	2,410
MIN	1,950	1,750	1,690	1,880	2,320	2,370	2,390	2,390	2,080	2,100	1,930	1,860
MEAN†	596	1,659	1,721	2,086	1,908	4,075	9,206	5,449	4,243	2,644	773	1,408
CFSM†	.44	1.22	1.26	1.53	1.40	2.99	6.75	4.00	3.11	1.94	.57	1.03
IN.†	.50	1.36	1.45	1.76	1.46	3.45	7.53	4.61	3.47	2.24	.65	1.15

CAL YR 1972 TOTAL 923,920 MEAN 2,524 MAX 11,000 MIN 1,540 MEAN† 3,658 CFSM† 1.95 IN† 26.54
WTR YR 1973 TOTAL 1,067,660 MEAN 2,926 MAX 11,400 MIN 1,690 MEAN† 2,977 CFSM† 2.18 IN† 29.63

† Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.
NOTE.--No gage-height record July 1 to Aug. 9.

01064300 Ellis River near Jackson, N.H.

LOCATION.--Lat 44°13'12", long 71°15'00", Carroll County, in White Mountain National Forest, on right bank 0.4 mi (0.6 km) upstream from small left-bank tributary, 1.3 mi (2.1 km) upstream from bridge on State Highway 16, and 6 mi (10 km) northwest of Jackson.

DRAINAGE AREA.--10.9 mi² (28.2 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,500 ft (457 m) from topographic map. Prior to Oct. 14, 1969, at site 0.3 mi (0.5 km) downstream at different datum.

AVERAGE DISCHARGE.--9 years, 33.0 ft³/s (0.935 m³/s), 41.11 in/yr (1,040 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,320 ft³/s (65.7 m³/s) June 30 (gage height, 6.59 ft or 2.009 m), from rating curve extended above 310 ft³/s (8.78 m³/s) on basis of slope-area measurement at gage height 8.99 ft (2.740 m); minimum, 8.9 ft³/s (0.25 m³/s) Oct. 6, 7, Feb. 27, 28.

Period of record: Maximum discharge, 4,500 ft³/s (127 m³/s) Nov. 3, 1966 (gage height, 10.34 ft or 3.152 m from recorder, affected by drawdown; 18.9 ft or 5.76 m from floodmarks, site and datum then in use), from rating curve extended above 390 ft³/s (11.0 m³/s) on basis of slope-area measurement at gage height 10.34 ft (3.152 m); minimum, 3.7 ft³/s (0.10 m³/s) Mar. 27, 1965.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	25	17	13	9.2	49	130	62	258	37	14
2	10	17	21	22	30	9.2	58	105	58	129	40	14
3	9.8	40	18	19	70	9.4	37	98	48	101	29	14
4	9.8	32	17	17	45	9.8	32	88	43	97	23	13
5	9.5	22	32	16	35	10	29	78	46	123	20	12
6	8.9	17	187	15	30	10	26	68	46	61	17	24
7	32	17	164	14	25	10	25	58	44	48	16	21
8	50	22	142	13	23	162	24	54	39	39	16	17
9	22	30	52	13	21	57	23	80	36	34	15	14
10	15	25	36	12	20	36	23	110	34	32	14	12
11	13	23	31	12	19	31	23	133	31	29	20	11
12	15	20	26	11	18	160	22	113	36	28	17	11
13	16	20	24	11	17	102	21	92	44	74	16	10
14	13	19	22	11	17	53	20	64	40	42	15	9.5
15	16	15	21	10	16	38	19	55	33	33	14	11
16	12	16	20	10	15	55	45	64	220	29	14	12
17	13	20	19	10	15	278	110	55	142	27	14	9.5
18	12	13	18	10	14	275	270	58	62	25	13	31
19	10	13	17	11	13	69	240	70	49	23	13	22
20	9.8	60	16	15	13	46	230	61	41	23	13	17
21	9.8	35	16	20	12	41	190	272	37	21	12	12
22	9.8	25	15	35	12	38	170	158	36	19	12	23
23	10	20	15	50	11	31	230	83	33	18	12	31
24	14	17	14	40	11	28	180	70	30	17	11	23
25	14	16	14	33	10	30	140	61	29	17	11	18
26	11	80	14	28	9.8	38	110	55	27	18	11	17
27	10	115	14	23	9.6	36	160	50	32	17	14	16
28	9.8	50	13	20	9.4	32	240	61	133	15	19	14
29	19	35	13	16	------	30	190	89	308	15	17	13
30	31	30	13	15	------	32	160	67	1,160	14	15	12
31	18	------	14	14	------	40	------	69	------	17	14	------
TOTAL	467.2	879	1,063	563	553.8	1,805.6	3,116	2,669	2,979	1,443	524	478.0
MEAN	15.1	29.3	34.3	18.2	19.8	58.2	104	86.1	99.3	46.5	16.9	15.9
MAX	50	115	187	50	70	278	270	272	1,160	258	40	31
MIN	8.9	13	13	10	9.4	9.2	19	50	27	14	11	9.5
CFSM	1.39	2.69	3.15	1.67	1.82	5.34	9.54	7.90	9.11	4.27	1.55	1.46
IN.	1.59	3.00	3.63	1.92	1.89	6.16	10.63	9.11	10.17	4.92	1.79	1.63

CAL YR 1972 TOTAL 11,676.6 MEAN 31.9 MAX 350 MIN 3.8 CFSM 2.93 IN 39.85
WTR YR 1973 TOTAL 16,540.6 MEAN 45.3 MAX 1,160 MIN 8.9 CFSM 4.16 IN 56.45

PEAK DISCHARGE (BASE, 400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1930	3.76	654				
3-17	2200	4.16	830				
6-16	1945	3.75	650				
6-30	1000	6.59	2,320				

NOTE.--No gage-height record Apr. 8 to May 9, Aug. 9 to Sept. 30.

01064400 Lucy Brook near North Conway, N.H.

LOCATION.--Lat 44°04'10", long 71°10'30", Carroll County, on left bank 1.6 mi (2.6 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of North Conway.

DRAINAGE AREA.--4.68 mi² (12.12 km²).

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 710 ft (216 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 10.5 ft³/s (0.297 m³/s), 30.47 in/yr (774 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 992 ft³/s (28.1 m³/s) June 30 (gage height, 9.20 ft or 2.804 m, from floodmarks); minimum, 0.99 ft³/s (0.028 m³/s) part or all of each day Sept. 13-18.

Period of record: Maximum discharge, 992 ft³/s (28.1 m³/s) Nov. 3, 1966, Apr. 25, 1968, June 30, 1973 (gage height, 9.20 ft or 2.804 m, from floodmarks), from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of slope-area measurement of peak flow; maximum recorded gage height, 8.14 ft (2.481 m) Nov. 3, 1966 (affected by drawdown); minimum discharge, 0.32 ft³/s (0.009 m³/s) Sept. 2, 3, 29, 30, 1968.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	3.9	12	8.5	34	5.4	26	29	16	340	3.0	1.5
2	1.2	4.2	9.0	12	28	5.4	45	25	14	110	21	1.5
3	1.2	13	8.0	9.8	40	5.6	40	24	12	48	19	1.5
4	1.1	8.0	7.0	9.8	30	6.5	27	21	11	255	9.4	1.3
5	1.1	5.7	9.1	8.8	20	6.7	25	17	11	114	6.9	1.2
6	1.1	5.0	17	8.2	17	6.6	23	15	11	42	5.2	2.7
7	7.6	4.6	49	7.6	15	6.5	22	14	9.8	27	4.6	2.1
8	10	6.4	27	7.2	14	11	21	13	9.1	20	4.4	1.6
9	5.0	30	23	6.8	12	19	22	21	8.2	16	4.1	1.4
10	3.5	25	16	6.6	11	18	24	39	7.4	13	3.7	1.3
11	3.1	19	15	6.4	10	15	26	33	6.9	14	4.1	1.2
12	2.8	13	14	6.2	9.0	33	22	39	7.6	11	3.6	1.2
13	2.6	11	13	6.0	8.4	40	20	29	7.9	9.4	3.3	1.1
14	2.4	10	12	5.8	7.8	35	18	21	7.4	13	3.0	.99
15	2.3	9.5	11	5.6	7.5	25	16	17	6.4	10	3.0	1.3
16	2.2	8.0	11	5.4	7.3	23	23	25	22	8.5	3.0	1.3
17	1.9	7.0	10	5.4	7.0	60	56	21	36	7.4	2.9	.99
18	1.8	6.5	9.5	5.4	6.7	150	70	24	16	6.9	2.7	3.4
19	1.8	6.0	9.0	5.4	6.5	70	70	45	11	6.4	2.6	2.4
20	1.8	30	8.2	40	6.2	45	53	25	8.8	6.1	2.4	1.6
21	1.8	15	7.6	70	6.0	35	41	49	7.4	6.1	2.1	1.3
22	1.8	10	7.6	40	6.0	27	59	64	7.1	5.4	2.0	2.8
23	1.8	8.3	7.4	25	5.8	24	59	53	7.4	5.0	1.9	3.5
24	1.7	7.4	7.1	17	5.8	21	40	39	7.4	4.6	1.8	2.1
25	1.7	7.0	7.1	18	5.7	23	32	24	11	4.2	1.6	1.9
26	1.7	42	6.9	45	5.6	33	27	21	8.2	4.2	1.5	1.7
27	1.7	49	6.6	55	5.6	36	32	17	9.6	4.1	1.6	1.6
28	1.7	23	6.6	65	5.5	26	62	18	29	4.2	2.0	1.5
29	3.7	15	6.4	70	------	24	60	26	33	3.7	1.8	1.4
30	5.6	13	6.1	60	------	22	37	19	560	3.4	1.5	1.3
31	4.4	------	7.0	40	------	21	------	17	------	3.1	1.5	------
TOTAL	83.7	415.5	368.2	682.1	343.4	878.7	1,098	843	919.4	1,125.7	131.2	50.68
MEAN	2.70	13.9	11.9	22.0	12.3	28.3	36.6	27.2	30.6	36.3	4.23	1.69
MAX	10	49	49	70	40	150	70	64	560	340	21	3.5
MIN	1.1	3.9	6.1	5.4	5.5	5.4	16	13	6.4	3.1	1.5	.99
CFSM	.58	2.97	2.54	4.70	2.63	6.05	7.82	5.81	6.54	7.76	.90	.36
IN.	.67	3.30	2.93	5.42	2.73	6.98	8.73	6.70	7.31	8.95	1.04	.40

CAL YR 1972 TOTAL 4,178.80 MEAN 11.4 MAX 90 MIN 1.1 CFSM 2.44 IN 33.22
WTR YR 1973 TOTAL 6,939.58 MEAN 19.0 MAX 560 MIN .99 CFSM 4.06 IN 55.16

PEAK DISCHARGE (BASE, 190 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17 or 18	-	-	*210				
6-30	-	†9.20	*992				
7-1	2115	8.05	920				
7-5	-	-	‡				

* About.
† From floodmarks.
‡ Unknown, but less than that of June 30.

NOTE.--No gage-height record Nov. 9 to Dec. 4, Jan. 20 to Feb. 20, Mar. 14-24, June 28 to July 1, July 4, 5.

01064500 Saco River near Conway, N.H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 mi² (1,000 km²).

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--50 years (1903-9, 1929-73), 917 ft³/s (25.97 m³/s), 32.26 in/yr (819 mm/yr).

EXTREMES.--Current year: Maximum discharge, 35,000 ft³/s (991 m³/s) June 30 (gage height, 15.06 ft or 4.590 m); minimum, 174 ft³/s (4.93 m³/s) Oct. 6.

Period of record: Maximum discharge, 43,900 ft³/s (1,240 m³/s) Mar. 27, 1953 (gage height, 17.20 ft or 5.243 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow; minimum, 40 ft³/s (1.13 m³/s) Mar. 16, 1932.

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	421	1,100	724	800	560	2,190	2,710	1,740	14,000	388	229
2	251	406	1,070	2,130	1,280	550	3,420	2,490	1,500	7,580	728	237
3	205	690	906	1,130	10,000	542	2,940	2,720	1,350	4,220	2,230	223
4	194	891	819	834	5,300	557	2,450	3,060	1,240	3,310	1,360	222
5	185	645	785	650	4,000	678	2,340	2,220	1,180	5,760	924	214
6	177	578	885	540	3,100	678	2,090	1,810	1,150	3,750	665	348
7	228	532	3,820	485	2,300	559	1,950	1,660	1,100	2,650	562	813
8	1,590	512	1,830	465	1,900	919	1,890	1,550	1,000	2,090	508	391
9	697	1,430	1,630	455	1,680	2,060	1,760	1,730	914	1,720	462	293
10	458	1,520	1,500	445	1,500	1,440	1,730	3,740	862	1,470	433	267
11	363	1,110	1,230	435	1,370	1,120	1,650	3,000	748	1,450	449	244
12	334	894	987	430	1,230	1,700	1,370	3,380	797	1,240	444	239
13	337	788	890	430	1,120	3,560	1,250	2,730	926	1,090	398	221
14	325	748	800	435	1,050	2,510	1,190	2,190	1,180	1,400	370	216
15	307	731	740	450	970	1,900	1,250	1,840	862	1,490	384	224
16	310	633	695	465	910	1,820	1,560	2,100	1,100	1,150	405	230
17	291	544	650	510	860	4,150	2,950	2,160	4,000	944	372	226
18	290	560	620	580	800	10,500	4,460	1,880	1,860	859	349	245
19	277	512	590	700	770	4,510	5,110	3,000	1,340	759	380	623
20	262	661	565	980	720	3,040	5,010	2,040	1,110	698	319	395
21	249	912	540	1,630	690	2,340	3,900	5,040	979	676	287	307
22	242	652	520	1,910	660	1,960	5,750	6,680	906	648	277	283
23	246	599	500	4,910	630	1,710	7,450	3,810	982	585	281	685
24	276	601	480	4,450	619	1,630	5,200	2,770	844	506	263	511
25	289	544	465	2,660	575	1,650	3,710	2,260	897	501	250	400
26	276	1,480	455	2,110	550	2,090	3,180	1,960	792	464	245	345
27	260	3,600	440	1,790	536	2,390	2,810	1,730	732	495	235	312
28	249	1,770	430	1,580	539	1,990	6,170	1,680	1,700	534	261	282
29	300	1,470	420	1,280	------	1,820	5,960	2,600	2,400	480	358	259
30	659	1,190	410	956	------	1,740	3,570	1,920	18,900	431	260	241
31	548	------	397	840	------	1,850	------	1,760	------	398	248	------
TOTAL	10,968	27,624	27,169	37,389	46,459	64,523	96,260	80,220	55,091	63,348	15,095	9,725
MEAN	354	921	876	1,206	1,659	2,081	3,209	2,588	1,836	2,043	487	324
MAX	1,590	3,600	3,820	4,910	10,000	10,500	7,450	6,680	18,900	14,000	2,230	813
MIN	177	406	397	430	536	542	1,190	1,550	732	398	235	214
CFSM	.92	2.39	2.27	3.12	4.30	5.39	8.31	6.70	4.76	5.29	1.26	.84
IN.	1.06	2.66	2.62	3.60	4.48	6.22	9.28	7.73	5.31	6.11	1.45	.94

CAL YR 1972 TOTAL 345,436 MEAN 944 MAX 7,910 MIN 160 CFSM 2.45 IN 33.29
WTR YR 1973 TOTAL 533,871 MEAN 1,463 MAX 18,900 MIN 177 CFSM 3.79 IN 51.45

PEAK DISCHARGE (BASE, 8,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-03	-	11.10	19,200				
3-18	0800	9.83	14,600				
5-21	1900	8.16	9,230				
6-30	2000	15.06	35,000				

01064800 Cold Brook at South Tamworth, N.H.

LOCATION.--Lat 43°48'57", long 71°17'51", Carroll County, on right bank 100 ft (30 m) upstream from highway bridge on Johnson Mountain Road, 0.8 mi (1.3 km) south of South Tamworth, and 0.9 mi (1.4 km) upstream from mouth.
DRAINAGE AREA.--5.41 mi^2 (1.40 km).
PERIOD OF RECORD.--June 1963 to September 1973 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 840 ft (256 m) from topographic map.
AVERAGE DISCHARGE.--10 years, 12.7 ft^3/s (0.360 m^3/s), 31.88 in/yr (810 mm/yr).
EXTREMES.--Current year: Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) July 4 (gage height, 10.95 ft or 3.338 m), from rating curve extended above 91 ft^3/s (2.58 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.48 ft^3/s (0.014 m^3/s) Aug. 30, Sept. 4, 5.

Period of record: Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) July 4, 1973 (gage height, 10.95 ft or 3.338 m), from rating curve extended above 91 ft^3/s (2.58 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.07 ft^3/s (0.002 m^3/s) Aug. 16-19, 23, 1965.

REVISIONS.--Figures of maximum discharge for the water years 1964 and 1965 have been revised to 1,940 ft^3/s (54.9 m^3/s) Nov. 7, 1963 (gage height, 10.21 ft or 3.112 m) and 280 ft^3/s (7.93 m^3/s) Nov. 26, 1964 (gage height, 7.36 ft or 2.243 m), superseding figures published in WSP 1901.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.
REVISIONS.--Revised figures of discharge, in cubic feet per second, for high-water periods in water year 1964, superseding figures published in WSP 1901, are given below:

Nov. 7......227
8......507
Apr. 14......265
15......160

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
November 1963	1,277.4	507	1.2	42.6	7.87	8.78
April 1964	1,683.9	265	6.1	56.1	10.4	11.58
WTR YR 1964	4,943.24	507	0.23	13.5	2.50	33.99
CAL YR 1964	3,962.17	265	0.23	10.8	2.00	27.24

REVISED PEAK DISCHARGE.--1964: Nov. 7 (1845) 1,940 ft^3/s (10.21 ft); Apr. 14 (1745) 614 ft^4/s (8.33 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	5.9	21	40	28	4.4	19	35	18	110	.96	.62
2	1.1	8.8	14	20	25	4.2	100	25	16	87	8.6	.62
3	1.1	22	13	13	37	4.2	70	24	13	36	7.0	.62
4	.95	14	11	11	28	4.8	50	23	11	339	7.0	.48
5	.86	9.9	10	10	20	4.8	43	20	39	248	3.6	.48
6	.86	8.5	56	9.0	16	4.8	38	15	25	61	2.5	.86
7	23	8.0	75	8.4	13	15	34	12	19	28	2.3	.78
8	11	12	40	7.8	11	35	31	11	15	18	2.3	.70
9	5.9	49	35	7.2	10	30	29	41	12	13	1.7	.70
10	4.5	38	27	7.0	8.8	20	26	70	10	9.8	1.6	.62
11	4.3	26	20	6.6	8.0	52	40	57	9.0	7.4	1.6	.62
12	4.0	19	14	6.3	7.2	66	35	56	12	6.7	1.6	.55
13	3.8	17	13	6.1	7.0	42	29	44	11	5.8	1.4	.55
14	3.5	16	12	6.0	6.8	35	24	30	9.1	5.5	1.1	.55
15	3.3	15	11	5.8	6.2	30	18	22	7.5	4.9	1.7	.70
16	3.1	12	10	5.8	6.0	40	25	27	13	4.3	1.9	.70
17	3.0	11	9.5	5.8	5.8	100	50	22	23	3.8	1.6	.70
18	3.0	9.9	8.8	9.2	5.6	200	60	27	13	3.4	1.4	1.9
19	2.9	10	8.0	18	5.5	150	70	45	10	3.2	1.3	1.6
20	2.9	41	7.8	60	5.3	100	60	29	8.3	2.7	1.2	1.1
21	2.9	21	7.7	32	5.1	70	50	193	7.4	2.3	.96	.86
22	2.8	15	7.6	20	5.0	50	75	153	6.9	2.1	.96	1.1
23	2.8	13	7.4	15	4.9	40	85	51	6.5	1.9	.96	1.7
24	2.8	12	7.3	16	4.8	33	70	34	5.7	1.7	.86	1.2
25	2.7	12	7.0	25	4.8	30	60	26	5.7	1.4	.78	1.2
26	2.0	20	7.0	45	4.6	35	45	21	5.6	1.3	.78	1.2
27	2.0	70	6.7	60	4.6	38	35	17	6.3	1.6	.78	1.1
28	2.0	40	6.3	65	4.5	29	70	17	13	1.4	1.3	.96
29	6.9	25	6.0	70	------	24	60	22	12	1.1	.78	.96
30	12	21	5.7	55	------	22	50	16	353	1.1	.70	.70
31	7.3	------	8.2	35	------	20	------	22	------	.96	.78	------
TOTAL	130.77	602.0	493.0	701.0	298.5	1.333.2	1.451	1.207	716.0	1.014.36	62.00	26.43
MEAN	4.22	20.1	15.9	22.6	10.7	43.0	48.4	38.9	23.9	32.7	2.00	.88
MAX	23	70	75	70	37	200	100	193	353	339	8.6	1.9
MIN	.86	5.9	5.7	5.8	4.5	4.2	18	11	5.6	.96	.70	.48
CFSM	.78	3.72	2.94	4.18	1.98	7.95	8.95	7.19	4.42	6.04	.37	.16
IN.	.90	4.14	3.39	4.82	2.05	9.17	9.98	8.30	4.92	6.97	.43	.18

CAL YR 1972 TOTAL 4.544.15 MEAN 12.4 MAX 80 MIN .52 CFSM 2.29 IN 31.25
WTR YR 1973 TOTAL 8.035.26 MEAN 22.0 MAX 353 MIN .48 CFSM 4.07 IN 55.25

PEAK DISCHARGE (BASE, 220 ft^3/s)

NOTE.--No gage-height record Mar. 30 to May 7.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	-	7.89	437				
5-22	0130	7.43	302				
6-30	0845	9.88	1,630				
7-04	2145	10.95	2,800				

01065000 Ossipee River at Effingham Falls, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map.

AVERAGE DISCHARGE.--31 years, 686 ft³/s (19.43 m³/s), 28.23 in/yr (717 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,180 ft³/s (147 m³/s) July 6 (gage height, 9.26 ft or 2.822 m); minimum, 86 ft³/s (2.44 m³/s) Aug. 28; minimum daily, 165 ft³/s (4.67 m³/s) Aug. 28.
Period of record: Maximum discharge, 11,700 ft³/s (331 m³/s) Mar. 28, 1953 (gage height, 11.64 ft or 3.548 m); minimum, about 5 ft³/s (0.14 m³/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 10, 1944.

REMARKS.--Records excellent. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 ft³ or 40,500,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	242	1,570	474	1,150	548	1,530	1,700	1,240	3,210	219	221
2	229	244	1,450	478	1,120	530	1,690	1,470	1,190	4,100	401	219
3	229	303	1,330	485	1,160	513	2,090	1,320	1,110	3,860	954	219
4	227	352	1,130	499	1,400	502	2,350	1,080	773	3,380	1,110	219
5	227	354	927	593	2,140	495	2,430	949	530	3,950	1,110	219
6	225	354	904	665	2,410	488	2,390	945	697	5,150	1,060	257
7	227	354	967	641	2,140	488	2,290	927	909	4,670	963	357
8	229	354	1,030	633	1,900	502	2,170	900	918	3,950	832	413
9	229	360	1,050	625	1,700	551	2,060	891	909	3,320	793	410
10	229	365	1,070	621	1,510	637	1,960	1,060	891	2,670	534	404
11	229	377	1,080	617	1,320	697	1,900	1,290	753	1,950	311	401
12	229	395	1,060	617	1,200	741	1,770	1,520	555	1,140	275	398
13	229	474	1,040	617	1,110	855	1,530	1,670	581	814	179	392
14	229	527	1,010	609	1,030	1,090	1,370	1,890	609	985	199	389
15	229	537	864	605	985	1,230	1,330	1,870	773	1,050	199	386
16	227	530	773	597	940	1,280	1,310	1,730	873	913	199	386
17	229	516	757	589	891	1,430	1,380	1,630	990	797	201	380
18	229	506	733	581	841	2,100	1,520	1,230	1,110	781	203	380
19	231	499	717	467	797	2,870	1,650	1,110	1,080	769	207	416
20	231	506	705	395	773	2,920	1,480	1,140	949	569	209	471
21	231	669	697	407	753	2,660	1,290	1,550	846	401	211	467
22	234	773	555	425	733	2,350	1,330	2,380	823	401	211	460
23	234	761	464	499	709	2,070	1,920	2,750	810	401	211	457
24	234	741	464	936	689	1,850	2,130	2,670	801	398	211	513
25	234	729	467	1,250	661	1,700	1,910	2,450	460	398	209	544
26	231	733	467	1,520	633	1,640	1,710	2,170	217	398	209	534
27	231	1,040	467	1,570	605	1,700	1,560	1,930	225	398	207	523
28	231	1,510	467	1,460	573	1,750	1,570	1,730	262	398	165	513
29	234	1,740	467	1,400	------	1,730	1,700	1,390	637	395	217	499
30	238	1,640	467	1,290	------	1,660	1,760	1,220	1,230	331	294	488
31	240	------	467	1,210	------	1,580	------	1,240	------	219	248	------
TOTAL	7,144	18,485	25,616	23,375	31,873	41,147	53,080	47,722	23,751	52,166	12,551	11,935
MEAN	230	616	826	754	1,138	1,327	1,769	1,539	792	1,683	405	398
MAX	240	1,740	1,570	1,570	2,410	2,920	2,430	2,750	1,240	5,150	1,110	544
MIN	225	242	464	395	573	488	1,290	891	217	219	165	219

CAL YR 1972 TOTAL 259,335 MEAN 709 MAX 3,600 MIN 160
WTR YR 1973 TOTAL 348,845 MEAN 956 MAX 5,150 MIN 165

01072100 Salmon Falls River at Milton, N.H.

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 215 ft³/s (6.089 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,690 ft³/s (47.9 m³/s) Apr. 3 (gage height, 5.46 ft or 1.664 m); minimum daily, 41 ft³/s (1.16 m³/s) Aug. 25 to Sept. 3.

Period of record: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Feb. 12, 1970 (gage height, 5.49 ft or 1.673 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 30, Sept. 13, 1970.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 ft³ (36,250,000 m³). See table below for figures of monthend contents.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	67	575	206	273	223	389	576	389	726	50	41
2	215	74	502	240	268	217	612	444	383	483	50	41
3	281	106	453	274	339	205	1.540	342	349	241	79	41
4	289	151	412	290	487	205	1.510	268	274	71	118	59
5	317	182	382	297	584	214	1.180	222	191	157	134	95
6	350	195	350	288	602	235	996	225	215	254	129	95
7	359	201	380	265	555	250	897	174	228	274	116	95
8	355	204	418	235	500	276	793	96	230	252	108	95
9	352	226	438	180	449	365	687	106	227	223	107	95
10	340	232	458	201	404	448	607	188	215	195	107	94
11	332	247	460	188	359	460	483	389	200	168	107	95
12	346	249	437	181	321	457	417	525	147	149	106	94
13	341	245	410	169	298	512	421	525	102	117	100	95
14	320	243	382	165	274	593	414	474	129	98	80	95
15	317	249	357	161	264	600	412	430	135	97	60	95
16	297	228	331	154	248	568	294	411	136	85	60	95
17	291	214	308	153	243	587	132	412	152	75	58	94
18	271	196	289	144	241	834	124	408	149	74	57	95
19	249	171	280	140	253	997	99	413	147	64	57	95
20	227	187	270	163	257	881	105	417	140	57	57	95
21	196	282	252	204	263	765	112	708	132	57	57	97
22	184	328	245	242	271	663	124	982	131	57	58	98
23	180	330	245	302	271	568	153	874	134	56	60	98
24	177	302	235	378	269	501	157	675	129	53	51	101
25	176	268	230	430	268	459	146	401	116	52	41	107
26	105	296	220	436	251	445	150	289	109	51	41	107
27	53	590	219	416	245	500	186	310	112	51	41	108
28	57	727	219	380	231	520	385	318	121	51	41	111
29	60	697	205	355	------	495	780	335	131	50	41	111
30	63	625	198	323	------	456	674	381	533	50	41	111
31	66	------	195	297	------	420	------	390	------	50	41	------
TOTAL	7.338	8.312	10.355	7.057	9.288	14.919	14.979	12.708	5.786	4.438	2.253	2.748
MEAN	237	277	334	253	332	481	499	410	193	143	72.7	91.6
MAX	359	727	575	436	602	997	1.540	982	533	726	134	111
MIN	53	67	195	140	231	205	99	96	102	50	41	41
†	632.8	812.2	770.4	787.4	721.8	955.6	1,205.5	1,216.7	1,205.9	1,152.0	1,140.1	929.4

CAL YR 1972 TOTAL 82.783 MEAN 226 MAX 848 MIN 50
WTR YR 1973 TOTAL 100.981 MEAN 277 MAX 1.540 MIN 41

† Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast, and Town House Ponds; records furnished by New Hampshire Water Resources Board.

01072850 Mohawk Brook near Center Strafford, N.H.

LOCATION.--Lat 43°15'47", long 71°05'50", Strafford County, on left bank 0.5 mi (0.8 km) downstream from bridge on State Highway 202A and 1.2 mi (1.9 km) east of Center Strafford.

DRAINAGE AREA.--8.87 mi² (22.97 km²).

PERIOD OF RECORD.--May 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (87 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 12.1 ft³/s (0.343 m³/s), 18.53 in/yr (471 mm/yr).

EXTREMES.--Current year: Maximum discharge, 600 ft³/s (17.0 m³/s) Apr. 2 (gage height, 4.30 ft or 1.311 m), from rating curve extended above 230 ft³/s (6.51 m³/s); minimum, .03 ft³/s (0.001 m) Sept. 17, 18.

Period of record: Maximum discharge, 600 ft³/s (17.0 m³/s) Apr. 2, 1973 (gage height, 4.30 ft or 1.311 m), from rating curve extended above 230 ft³/s (6.51 m³/s); maximum gage height, 6.02 ft (1.835 m) Feb. 11, 1970 (backwater from ice); no flow at times most years.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	6.2	25	16	9.0	5.4	14	30	19	69	.44	.23
2	.80	29	22	21	13	5.1	351	23	13	30	15	.22
3	.60	22	19	15	25	6.0	160	11	10	18	29	.21
4	.50	14	18	12	60	9.0	70	12	8.2	12	13	.20
5	.50	10	16	11	44	11	63	15	7.9	16	6.9	.19
6	2.6	8.7	23	9.0	32	13	59	14	7.9	16	4.3	.19
7	31	8.4	45	7.0	25	14	56	12	7.9	9.4	3.1	.35
8	12	26	30	6.0	17	14	41	11	7.2	6.4	2.1	.20
9	6.5	24	31	5.3	15	25	32	17	5.7	4.9	1.7	.10
10	4.3	15	32	4.7	13	36	34	23	4.7	4.1	1.3	.07
11	3.5	12	28	4.4	10	23	44	30	3.7	3.6	.95	.06
12	3.4	11	22	4.0	8.6	28	31	40	3.2	2.5	.76	.06
13	3.2	11	20	3.6	7.6	60	27	31	3.1	2.2	.57	.06
14	2.8	18	15	3.3	7.2	53	24	23	3.1	1.9	.57	.07
15	2.8	14	14	3.8	7.2	40	21	16	2.8	1.6	.57	.09
16	2.8	11	13	4.4	7.8	41	19	28	2.5	1.5	.57	.14
17	2.3	11	12	5.0	7.0	83	16	29	3.2	1.5	.64	.05
18	2.2	10	12	6.0	6.2	98	14	23	3.2	1.4	.64	.25
19	2.2	61	11	7.4	5.6	40	13	38	2.8	1.3	.57	.57
20	2.1	47	10	10	5.2	37	11	26	2.5	1.2	.48	.34
21	1.9	28	9.6	13	5.2	33	10	105	2.2	1.3	.40	.20
22	1.8	20	9.2	12	6.2	29	11	69	2.0	2.8	.35	.22
23	1.7	15	9.6	25	7.4	26	9.7	38	2.8	2.4	.34	.71
24	1.7	15	10	29	6.8	25	9.4	27	3.2	1.9	.31	.81
25	1.6	75	9.6	24	6.3	18	8.7	21	2.6	1.3	.31	.88
26	1.5	120	9.3	19	5.8	27	7.7	18	2.4	.95	.31	.64
27	1.5	60	9.0	15	5.4	31	40	16	3.7	.88	.30	.57
28	5.6	42	8.6	13	5.0	21	70	13	7.9	.88	.40	.34
29	10	35	8.0	11	------	16	56	21	7.9	.81	.35	.28
30	7.0	27	7.6	10	------	15	45	24	91	.64	.30	.25
31	4.8	------	7.3	9.6	------	14	------	16	------	.52	.25	------
TOTAL	126.05	806.3	515.8	339.5	373.5	896.5	1,367.5	820	247.3	218.88	86.78	8.55
MEAN	4.07	26.9	16.6	11.0	13.3	28.9	45.6	26.5	8.24	7.06	2.80	.29
MAX	31	120	45	29	60	98	351	105	91	69	29	.88
MIN	.50	6.2	7.3	3.3	5.0	5.1	7.7	11	2.0	.52	.25	.05
CFSM	.46	3.03	1.87	1.24	1.50	3.26	5.14	2.99	.93	.80	.32	.03
IN.	.53	3.38	2.16	1.42	1.57	3.76	5.74	3.44	1.04	.92	.36	.04

CAL YR 1972 TOTAL 6,186.98 MEAN 16.9 MAX 120 MIN .46 CFSM 1.91 IN 25.95
WTR YR 1973 TOTAL 5,806.66 MEAN 15.9 MAX 351 MIN .05 CFSM 1.79 IN 24.35

NOTE.--No gage-height record Oct. 1-4, Nov. 26-28, Jan. 1 to Mar. 12.

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-19	1045	3.00	115	4-02	0800	4.30	600
11-26	-	-	†130	5-21	1400	3.33	199
3-17	2115	3.15	153	6-30	1315	3.08	136

† About.

01073000 Oyster River near Durham, N.H.

LOCATION.--Lat 43°08'55", long 70°57'56", Strafford County, on left bank 200 ft (60 m) upstream from highway bridge, 2.5 mi (4.0 km) west of Durham, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--12.1 mi^2 (31.3 km^2).

PERIOD OF RECORD.--October 1934 to current year. October and November 1934 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 70 ft (21 m) from topographic map. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--39 years, 19.3 ft^3/s (0.547 m^3/s), 21.66 in/yr (550 mm/yr).

EXTREMES.--Current year: Maximum discharge, 610 ft^3/s (17.3 m^3/s) Apr. 2 (gage height, 5.28 ft or 1.609 m); minimum not determined; minimum daily, 0.75 ft^3/s (0.021 m^3/s) Sept. 14, 17.

Period of record: Maximum discharge, 862 ft^3/s (24.4 m^3/s) Sept. 11, 1954 (gage height, 6.47 ft or 1.972 m, present datum); maximum gage height, 8.45 ft (2.576 m), present datum, Mar. 19, 1936; minimum discharge, 0.23 ft^3/s (0.007 m^3/s) Aug. 18, 19, 25, 26, 27, 1971.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	8.1	43	40	24	14	31	47	25	47	1.6	1.1
2	1.6	11	44	50	34	13	476	34	28	30	4.9	1.1
3	1.5	34	39	44	105	15	330	24	22	17	17	1.1
4	1.3	23	35	35	100	24	152	26	18	9.9	9.1	1.0
5	1.4	16	28	31	81	39	151	33	16	12	5.0	1.0
6	1.3	14	42	25	58	42	129	30	12	14	3.1	1.2
7	16	12	100	22	47	41	98	26	11	7.2	2.2	1.7
8	23	12	71	18	40	89	77	18	16	5.0	1.9	1.4
9	10	61	69	15	38	108	63	31	13	6.9	1.8	1.1
10	7.1	41	60	13	30	85	77	69	11	4.4	1.6	.97
11	5.6	28	52	11	24	72	88	72	8.2	3.1	1.4	.90
12	5.1	22	41	10	21	86	67	69	6.1	4.8	1.6	.90
13	5.4	19	40	9.0	19	117	53	59	7.4	5.6	2.2	.65
14	5.0	23	36	8.0	19	98	43	42	7.1	2.7	1.6	.75
15	6.0	32	28	9.0	19	77	38	32	5.3	2.1	1.8	.90
16	5.6	27	24	10	21	80	35	59	6.2	2.3	2.4	.85
17	5.2	20	22	11	18	124	31	49	11	2.0	2.0	.75
18	4.8	18	25	12	16	149	29	58	9.1	1.9	4.5	1.4
19	4.3	16	23	15	15	95	26	80	6.8	1.8	4.9	2.1
20	4.0	124	22	30	14	73	22	55	4.9	1.7	2.1	1.2
21	3.7	107	21	34	14	58	19	136	4.3	3.6	1.5	1.0
22	3.3	65	20	32	17	49	17	115	3.9	3.8	1.3	1.1
23	3.1	46	21	65	20	42	16	75	5.6	2.4	1.2	1.7
24	3.0	34	23	77	18	39	14	49	5.3	1.9	1.1	1.3
25	2.8	32	22	55	16	37	13	43	4.7	1.6	1.0	1.1
26	2.8	118	22	44	15	54	13	38	4.7	1.5	1.0	1.0
27	2.7	143	21	37	14	61	52	32	7.2	1.7	1.1	.90
28	2.8	84	21	33	13	44	105	30	9.6	2.1	1.4	.90
29	11	63	18	28	------	36	93	53	11	1.7	1.4	.85
30	18	48	17	27	------	31	67	46	28	2.3	1.2	.85
31	11	------	17	25	------	29	------	32	------	1.7	1.1	------
TOTAL	180.1	1,301.1	1,067	875.0	870	1,921	2,425	1,562	328.4	205.7	86.0	32.97
MEAN	5.81	43.4	34.4	28.2	31.1	62.0	80.8	50.4	10.9	6.64	2.77	1.10
MAX	23	143	100	77	105	149	476	136	28	47	17	2.1
MIN	1.3	8.1	17	8.0	13	13	13	18	3.9	1.5	1.0	.75
CFSM	.48	3.59	2.84	2.33	2.57	5.12	6.68	4.17	.90	.55	.23	.09
IN.	.55	4.00	3.28	2.69	2.67	5.91	7.46	4.80	1.01	.63	.26	[illegible]

CAL YR 1972 TOTAL 10,138.60 MEAN 27.7 MAX 215 MIN 1.0 CFSM 2.29 IN 31.17
WTR YR 1973 TOTAL 10,854.27 MEAN 29.7 MAX 476 MIN .75 CFSM 2.45 IN 33.37

PEAK DISCHARGE (BASE, 170 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1100	3.34	196	3-17	2100	3.31	191
11-26	2030	3.31	191	4-2	1530	5.28	610

01073500 Lamprey River near Newmarket, N.H.

LOCATION.--Lat 43°06'09", long 70°57'11", Rockingham County, on right bank 200 ft (60 m) upstream from Packers Falls, 2 mi (3 km) northwest of Newmarket, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--183 mi² (474 km²).

PERIOD OF RECORD.--July 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m) from topographic map.

AVERAGE DISCHARGE.--39 years, 278 ft³/s (7.873 m³/s), 20.63 in/yr (524 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,030 ft³/s (85.8 m³/s) Apr. 4 (gage height, 9.22 ft or 2.810 m); minimum daily, 18 ft³/s (0.510 m³/s) Sept. 17.

Period of record: Maximum discharge, 5,490 ft³/s (155 m³/s) Mar. 20, 1936 (gage height, 14.88 ft or 4.535 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of computation of flow over dam at gage height 14.69 ft (4.478 m); minimum daily, 1 ft³/s (0.028 m³/s) Oct. 21, 1935.

REMARKS.--Records excellent. Some regulation by Pawtuckaway and Mendums Ponds (combined capacity, about 600,000,000 ft³ or 17,000,000 m³).

REVISIONS (WATER YEARS).--WSP 1231: 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	189	754	443	376	216	435	604	416	847	45	28
2	31	181	688	596	410	221	1,970	500	351	1,100	57	29
3	29	273	629	606	867	235	2,950	438	295	899	157	30
4	33	283	600	590	1,120	287	2,900	420	257	577	236	32
5	45	284	529	539	1,270	424	2,350	384	234	439	288	35
6	37	264	578	445	1,230	518	1,800	352	205	377	263	38
7	153	240	972	315	955	537	1,430	324	192	328	193	43
8	416	235	900	260	753	719	1,130	289	195	272	139	35
9	319	553	1,080	260	647	1,020	1,000	312	170	221	107	32
10	254	557	1,060	273	556	1,160	1,050	513	162	178	85	31
11	205	473	942	261	483	1,120	1,200	577	142	149	71	29
12	180	415	760	246	416	1,340	1,130	648	174	127	63	26
13	194	356	716	230	394	1,190	830	675	140	107	55	23
14	185	341	642	218	361	1,280	650	619	136	95	49	21
15	179	409	550	220	351	1,200	570	524	139	85	47	20
16	157	398	377	225	357	1,070	520	585	134	77	49	20
17	145	361	540	225	337	1,140	450	627	135	62	47	18
18	152	324	520	230	304	1,460	420	631	124	63	43	22
19	173	295	450	253	298	1,490	390	722	116	61	41	33
20	159	765	400	367	296	1,350	350	675	107	58	38	38
21	195	1,060	390	470	288	1,070	320	1,020	99	71	34	36
22	211	990	390	528	295	837	330	1,300	92	78	32	36
23	192	938	413	718	305	669	280	1,390	94	74	30	39
24	172	639	416	839	295	598	268	1,170	100	69	29	40
25	196	553	408	864	270	550	253	840	110	61	26	37
26	215	842	404	851	267	590	243	622	104	57	25	36
27	171	1,320	394	725	231	585	433	516	118	51	25	34
28	191	1,310	375	606	218	661	787	462	147	51	27	30
29	216	1,180	350	527	------	583	837	503	157	49	31	26
30	250	899	299	459	------	502	747	496	354	52	28	23
31	210	------	279	430	------	452	------	466	------	48	28	------
TOTAL	5,315	16,933	17,795	13,820	13,963	24,875	27,393	19,204	5,149	6,783	2,388	920
MEAN	171	561	574	446	499	802	930	619	172	219	77.0	30.7
MAX	416	1,320	1,080	864	1,270	1,490	2,960	1,390	416	1,100	288	43
MIN	29	181	279	218	218	216	243	289	92	48	25	18
CFSM	.93	3.07	3.14	2.44	2.73	4.38	5.08	3.38	.94	1.20	.42	.17
IN.	1.08	3.42	3.62	2.81	2.84	5.06	5.57	3.90	1.05	1.38	.49	.19

CAL YR 1972 TOTAL 150,422 MEAN 411 MAX 1,970 MIN 29 CFSM 2.25 IN 30.58
WTR YR 1973 TOTAL 154,938 MEAN 424 MAX 2,960 MIN 18 CFSM 2.32 IN 31.50

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01073600 Dudley Brook near Exeter, N.H.

LOCATION.--Lat 42°59'37", long 71°01'24", Rockingham County, on right bank 2.4 mi (3.9 km) upstream from mouth and 3.5 mi (5.6 km) west of Exeter.

DRAINAGE AREA.--4.97 mi² (12.87 km²).

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (27 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 7.04 ft³/s (0.199 m³/s), 19.24 in/yr (489 mm/yr).

EXTREMES.--Current year: Maximum discharge, 358 ft³/s (10.14 m³/s) Apr. 2 (gage height, 7.74 ft or 2.36 m), from rating curve extended above 210 ft³/s (5.95 m³/s); minimum, 0.10 ft³/s (0.003 m³/s) Aug. 26, 27, Sept. 22.

Period of record: Maximum discharge, 358 ft³/s (10.14 m³/s) Apr. 2, 1973 (gage height, 7.74 ft or 2.36 m), from rating curve extended above 210 ft³/s (5.95 m³/s); no flow at times some years.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.1	9.7	7.0	6.5	3.2	9.7	20	7.1	30	.52	.32
2	1.3	5.0	10	15	10	5.0	241	15	5.2	13	1.2	.29
3	1.1	17	9.0	23	50	7.3	101	10	3.3	4.7	9.2	.16
4	1.0	16	6.4	20	30	24	39	7.0	2.8	2.5	11	.15
5	.98	8.9	8.0	15	25	38	55	10	2.6	2.6	4.3	.13
6	.93	6.2	13	10	20	30	48	6.0	2.8	3.7	1.4	.13
7	16	4.9	50	8.0	14	20	25	6.0	2.6	2.6	.65	.13
8	58	5.3	40	6.0	11	69	17	4.5	2.5	1.5	.34	.12
9	19	83	30	4.5	10	63	13	10	2.2	1.1	.27	.12
10	7.1	48	32	3.5	8.0	37	25	17	2.1	.72	.24	.12
11	4.5	18	25	2.7	7.0	26	38	22	1.7	.63	.21	.12
12	3.5	11	17	2.3	6.0	37	20	25	1.4	.69	.19	.11
13	3.8	9.0	12	1.9	5.5	56	14	17	5.0	.52	.19	.11
14	4.4	9.0	11	1.7	5.0	37	11	10	6.7	.45	.18	.11
15	4.0	18	9.0	1.8	4.3	23	9.0	6.7	3.6	.43	.19	.11
16	3.4	16	7.0	2.0	3.7	34	7.5	18	2.5	.43	.30	.11
17	3.3	11	7.8	2.2	3.3	60	6.6	22	3.1	.43	.30	.11
18	2.6	8.5	9.0	2.8	3.0	56	6.0	13	3.0	.36	.20	.15
19	2.4	6.7	8.0	3.5	2.9	26	5.4	28	2.2	.34	.19	.32
20	2.1	107	7.0	4.0	3.5	18	5.0	13	1.7	.29	.15	.24
21	1.9	75	6.5	12	5.0	14	4.5	51	1.4	.63	.14	.15
22	1.8	28	6.0	9.0	7.0	12	4.2	36	1.3	1.4	.14	.11
23	1.8	13	7.0	8.0	7.5	12	3.9	20	1.4	.43	.13	.19
24	2.1	9.0	8.0	20	6.0	9.5	3.6	11	1.5	.45	.13	.27
25	2.1	8.7	9.0	16	7.0	8.9	3.4	7.5	1.5	.30	.12	.27
26	2.1	53	8.0	13	5.0	17	3.3	6.5	1.5	.26	.10	.21
27	2.0	68	7.5	11	4.0	28	10	5.7	2.2	.26	.10	.21
28	1.9	27	7.0	9.0	3.5	15	25	5.3	4.1	.27	.13	.21
29	3.7	17	6.0	8.0	------	11	35	9.2	3.8	.29	.19	.16
30	13	12	5.5	7.5	------	9.0	30	9.0	11	.98	.18	.14
31	9.9	------	5.0	7.0	------	8.3	------	6.7	------	.93	.16	------
TOTAL	183.51	725.3	398.4	257.4	275.7	814.2	819.1	446.1	94.0	73.69	32.80	5.08
MEAN	5.92	24.2	12.9	8.30	9.85	26.3	27.3	14.4	3.13	2.38	1.06	.17
MAX	58	107	50	23	50	69	241	51	11	30	11	.32
MIN	.93	4.9	5.0	1.7	2.9	3.2	3.3	4.5	1.3	.26	.10	.11
CFSM	1.19	4.87	2.60	1.67	1.98	5.29	5.49	2.90	.63	.48	.21	.03
IN.	1.37	5.43	2.98	1.93	2.06	6.09	6.13	3.34	.70	.55	.25	.04

CAL YR 1972 TOTAL 4,546.85 MEAN 12.4 MAX 107 MIN .47 CFSM 2.50 IN 34.03
WTR YR 1973 TOTAL 4,125.28 MEAN 11.3 MAX 241 MIN .10 CFSM 2.27 IN 30.88

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1230	5.88	116	3-8	1815	5.99	128
11-20	1615	6.61	198	3-17	2130	5.79	107
11-26	2130	5.91	119	4-2	0945	7.74	358

NOTE.--No gage-height record Apr. 16 to May 13.

01075000 Pemigewasset River at Woodstock, N.H.

LOCATION.--Lat 43°58'34", long 71°40'48", Grafton County, on right bank 0.2 mi (0.3 km) east of Woodstock and 0.7 mi (1.1 km) upstream from Eastman Brook.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 505 ft³/s (14.30 m³/s), 35.53 in/yr (902 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29,500 ft³/s (835 m³/s) June 30 (gage height, 13.40 ft or 4.084 m); minimum daily, 67 ft³/s (1.90 m³/s) Sept. 5.

Period of record: Maximum discharge, 47,000 ft³/s (1,330 m³/s) Oct. 24, 1959 (gage height, 16.13 ft or 4.916 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 42 ft³/s (1.19 m³/s) Feb. 11, 1948.

REMARKS.--Records good except those for periods of backwater, which are fair. Some diurnal fluctuation caused by powerplant above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1942(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	326	400	700	290	155	1,050	1,100	958	5,840	130	80
2	156	375	375	800	1,100	150	1,700	1,130	884	2,220	433	74
3	129	1,110	365	380	6,740	145	1,100	1,680	698	1,480	671	70
4	117	816	345	350	1,990	145	863	2,070	602	1,130	306	68
5	112	515	335	280	1,090	200	842	1,160	1,210	1,230	219	67
6	104	420	827	240	816	192	704	905	790	891	181	289
7	208	380	2,100	230	722	160	626	822	674	692	165	337
8	809	430	900	220	602	905	579	734	574	574	149	156
9	405	1,380	950	210	515	1,250	515	1,340	485	495	137	114
10	278	891	750	210	430	734	490	2,250	410	438	138	96
11	226	579	500	205	380	530	460	1,840	355	401	186	87
12	215	470	430	200	340	1,310	390	1,770	485	350	181	81
13	258	425	460	200	310	2,160	360	1,380	680	323	139	76
14	226	405	410	210	290	1,320	335	965	674	615	125	73
15	295	405	350	220	270	863	370	790	445	511	129	81
16	266	355	360	210	250	863	546	1,100	1,110	382	127	81
17	240	322	320	200	240	2,460	1,430	950	2,360	303	113	74
18	246	325	300	250	330	4,690	2,160	793	928	270	110	267
19	215	295	320	600	350	1,860	2,710	973	686	248	108	414
20	195	440	330	2,000	300	1,150	2,380	849	557	228	98	193
21	179	440	300	1,500	250	863	1,840	2,140	480	277	89	157
22	179	320	290	1,150	210	728	4,040	2,840	460	231	86	160
23	208	245	280	2,500	180	632	4,470	1,700	445	198	86	683
24	313	313	270	1,700	170	585	2,690	1,140	400	179	80	320
25	274	295	270	900	155	596	1,840	898	395	166	74	242
26	232	877	260	700	150	870	1,470	764	335	154	72	199
27	212	1,490	250	600	140	965	1,160	674	290	171	73	171
28	195	650	250	500	150	746	2,390	777	996	223	198	149
29	360	515	250	450	------	674	2,660	1,380	1,810	189	143	135
30	809	405	250	380	------	656	1,540	935	16,700	154	94	122
31	410	------	280	300	------	796	------	928	------	136	89	------
TOTAL	8,321	16,214	14,077	18,595	18,760	29,353	43,710	38,777	37,876	20,699	4,929	5,116
MEAN	268	540	454	600	670	947	1,457	1,251	1,263	668	159	171
MAX	809	1,490	2,100	2,500	6,740	4,690	4,470	2,840	16,700	5,840	671	683
MIN	104	245	250	200	140	145	335	674	290	136	72	67
CFSM	1.39	2.80	2.35	3.11	3.47	4.91	7.55	6.48	6.54	3.46	.82	.89
IN.	1.60	3.13	2.71	3.58	3.62	5.66	8.42	7.47	7.30	3.99	.95	.99

CAL YR 1972 TOTAL 207,155 MEAN 566 MAX 5,000 MIN 93 CFSM 2.93 IN 39.93
WTR YR 1973 TOTAL 256,427 MEAN 703 MAX 16,700 MIN 67 CFSM 3.64 IN 49.43

PEAK DISCHARGE (BASE, 7,100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0300	11.41	19,600	6-30	1230	13.40	29,500
3-18	0200	8.35	7,560				

NOTE.--Backwater from bridge debris Oct. 1 to Feb. 2. Backwater from section of crib dam Feb. 3 to June 30.

01075800 Stevens Brook near Wentworth, N.H.

LOCATION.--Lat 43°50'12", long 71°53'07", Grafton County, on left bank 150 ft (46 m) upstream from highway bridge, 0.2 mi (0.3 km) upstream from mouth, and 2.5 mi (4.0 km) southeast of Wentworth.

DRAINAGE AREA.--2.94 mi^2 (7.61 km^2).

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 4.47 ft^3/s (0.127 m^3/s), 20.65 in/yr (525 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,120 ft^3/s (31.7 m^3/s) June 30 (gage height, 6.36 ft or 1.939 m), from rating curve extended above 120 ft^3/s (3.40 m^3/s); minimum, about 0.10 ft^3/s (0.003 m^3/s) Aug. 27.

Period of record: Maximum discharge, 1,120 ft^3/s (31.7 m^3/s) June 30, 1973 (gage height, 6.36 ft or 1.939 m), from rating curve extended above 120 ft^3/s (3.40 m^3/s); minimum, 0.01 ft^3/s (<0.001 m^3/s) Aug. 8-13, Sept. 18-29, 1963, Sept. 16, 19-21, 1964, Aug. 15-18, 1965, Aug. 18-23, 1971.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	1.5	7.5	23	2.3	1.3	11	7.0	11	50	.29	.25
2	.18	1.9	5.7	11	3.3	1.3	26	5.7	10	18	1.8	.21
3	.18	11	5.0	6.8	72	1.3	19	6.6	6.1	10	1.7	.18
4	.16	5.9	4.5	6.6	21	1.3	15	8.9	4.8	25	.79	.16
5	.16	3.4	5.2	4.1	11	1.5	16	6.6	10	49	.53	.14
6	.16	3.0	16	3.0	9.0	1.9	12	5.7	6.6	17	.39	.70
7	.61	2.6	26	2.5	6.0	1.9	12	4.5	5.0	10	.37	.55
8	2.0	6.3	24	2.1	4.5	15	11	3.8	3.8	8.1	.29	.40
9	1.0	38	14	1.8	3.7	20	8.4	6.2	2.7	8.3	.25	.30
10	.57	15	8.4	1.6	3.2	14	7.3	11	1.8	4.6	.25	.25
11	.45	8.6	5.7	1.7	2.7	8.4	6.6	12	1.5	3.8	.74	.20
12	.42	6.1	4.8	1.7	2.4	13	5.0	14	3.4	2.5	.39	.18
13	.42	5.2	4.3	1.4	2.2	25	4.5	10	14	2.3	.27	.16
14	.39	5.0	3.8	1.3	2.0	16	4.6	8.0	14	4.6	.21	.15
15	.42	4.8	3.5	1.3	1.9	8.9	7.5	6.0	5.7	4.1	.19	.22
16	.57	3.6	3.2	1.3	1.7	8.9	13	13	7.0	3.1	.19	.16
17	.49	3.0	2.9	1.3	1.7	27	24	10	14	2.1	.18	.16
18	.42	2.7	2.7	1.5	1.6	56	19	8.9	6.6	1.7	.17	1.4
19	.39	2.5	2.5	3.6	1.6	14	17	11	4.1	1.5	.16	1.0
20	.37	14	2.2	50	1.5	9.2	11	8.6	2.9	1.1	.16	.70
21	.37	11	2.0	40	1.5	7.3	8.9	56	2.4	1.0	.15	.53
22	.34	7.0	1.9	35	1.4	6.1	12	53	2.5	.90	.15	.49
23	.37	8.6	1.9	70	1.4	5.2	12	18	2.3	.90	.14	.90
24	.42	4.1	1.8	43	1.4	5.5	9.0	11	1.8	.74	.14	.90
25	.49	3.3	1.7	20	1.4	5.9	6.2	8.1	2.5	.65	.13	.57
26	.49	36	1.6	8.9	1.3	13	4.6	7.3	1.7	.57	.13	.42
27	.45	25	1.6	5.7	1.3	13	3.3	5.7	1.3	.65	.13	.37
28	.42	12	1.5	4.1	1.3	9.2	11	6.8	11	.49	.40	.31
29	1.7	9.4	1.5	3.8	------	7.5	11	12	44	.39	.36	.29
30	7.3	7.3	1.5	4.1	------	6.6	9.4	7.8	270	.37	.33	.25
31	2.6	------	1.7	2.6	------	7.0	------	11	------	.31	.28	------
TOTAL	24.51	267.8	170.6	364.8	166.3	332.2	337.3	364.2	474.5	233.77	11.66	12.52
MEAN	.79	8.93	5.50	11.8	5.94	10.7	11.2	11.7	15.8	7.54	.38	.42
MAX	7.3	38	26	70	72	56	26	56	270	50	1.8	1.4
MIN	.16	1.5	1.5	1.3	1.3	1.3	3.3	3.8	1.3	.31	.13	.14
CFSM	.27	3.04	1.87	4.01	2.02	3.64	3.81	3.98	5.37	2.56	.13	.14
IN.	.31	3.39	2.16	4.62	2.10	4.20	4.27	4.61	6.00	2.96	.15	.16

CAL YR 1972 TOTAL 1,852.26 MEAN 5.06 MAX 50 MIN .13 CFSM 1.72 IN 23.44
WTR YR 1973 TOTAL 2,760.16 MEAN 7.56 MAX 270 MIN .13 CFSM 2.57 IN 34.92

PEAK DISCHARGE (BASE, 90 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-23	-	-	*96	5-22	0015	2.93	100
2-3	0400	3.24	145	6-30	1515	6.36	1,120
3-18	0330	3.19	138	7-4	2100	2.93	100

* About.

NOTE.--No gage-height record Aug. 15 to Sept. 19.

01076000 Baker River near Rumney, N.H.

LOCATION.--Lat 43°47'46", long 71°50'42", Grafton County, on right bank 200 ft (60 m) upstream from small right-bank tributary, 0.3 mi (0.5 km) upstream from Halls Brook, and 1.8 mi (2.9 km) southwest of Rumney.

DRAINAGE AREA.--143 mi^2 (370 km^2).

PERIOD OF RECORD.--October 1928 to current year. October 1928 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since Sept. 10, 1938. Altitude of gage is 495 ft (151 m) from topographic map.

AVERAGE DISCHARGE.--45 years, 252 ft^3/s (7.137 m^3/s), 23.93 in/yr (608 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,700 ft^3/s (331 m^3/s) June 30 (gage height, 14.45 ft or 4.404 m); minimum, 32 ft^3/s (0.906 m^3/s) Sept. 14.

Period of record: Maximum discharge, 21,400 ft^3/s (606 m^3/s) June 15, 1942 (gage height, 15.50 ft or 4.724 m), from rating curve extended above 3,800 ft^3/s (108 m^3/s) on basis of slope-area measurements at gage heights 13.03, 14.49, and 15.50 ft (3.972, 4.417, and 4.924 m); minimum, 6.5 ft^3/s (0.18 m^3/s) Dec. 4, 1947, caused by ice conditions upstream.

Maximum discharge since valley was settled about 1766, 25,900 ft^3/s (733 m^3/s) Nov. 3, 1927 (gage height, 17.4 ft or 5.30 m, from floodmarks), from rating curve extended above 3,800 ft^3/s (108 m^3/s) as described above.

REMARKS.--Records excellent except those for winter period, which are fair. High flow slightly affected by retarding reservoirs since 1968.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 781: 1934(M). WSP 1231: 1929-33(M), 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	146	342	346	212	117	833	430	594	5,100	57	42
2	55	149	270	406	297	114	1,890	371	480	1,570	124	43
3	50	427	240	286	1,770	113	1,390	392	366	1,180	229	40
4	48	330	190	239	1,080	114	1,060	624	298	1,290	134	36
5	45	233	186	246	732	134	1,000	434	600	1,640	99	34
6	46	195	265	170	475	151	838	355	413	972	79	67
7	77	178	894	124	417	146	740	304	334	692	69	93
8	281	195	664	130	365	294	659	268	278	510	63	64
9	152	1,030	500	140	278	616	547	457	227	374	58	52
10	99	735	400	150	212	556	481	794	190	272	55	45
11	75	498	320	150	195	422	435	790	161	214	101	40
12	67	364	260	145	175	560	365	960	263	171	174	37
13	65	290	272	135	180	1,060	323	711	462	152	106	34
14	62	256	246	133	191	855	308	524	481	198	84	33
15	67	249	179	130	201	621	357	413	304	206	75	37
16	71	214	195	128	189	581	512	515	281	171	71	39
17	67	180	170	122	155	1,640	890	482	655	143	64	37
18	67	179	167	130	150	3,010	1,030	417	390	124	57	53
19	60	164	208	150	160	1,270	1,060	521	292	113	54	121
20	58	386	200	796	170	916	906	458	232	103	51	74
21	55	476	179	869	157	689	724	1,480	196	113	46	60
22	55	310	170	681	153	538	883	1,820	199	106	43	53
23	58	230	165	1,570	147	431	886	1,070	196	90	42	97
24	81	219	158	1,410	137	392	627	779	171	79	40	83
25	79	202	152	894	126	419	459	608	221	73	37	71
26	73	724	149	692	127	787	374	485	197	67	35	60
27	66	1,050	145	516	117	960	318	378	164	71	34	55
28	63	642	140	421	118	734	585	381	585	81	44	50
29	103	502	138	329	------	623	723	590	1,050	73	60	45
30	305	382	134	285	------	552	549	458	8,300	65	47	42
31	195	------	157	250	------	624	------	569	------	60	46	------
TOTAL	2,703	11,135	7,855	12,173	8,686	20,039	21,752	18,838	18,580	16,073	2,278	1,637
MEAN	87.2	371	253	393	310	646	725	608	619	518	73.5	54.6
MAX	305	1,050	894	1,570	1,770	3,010	1,890	1,820	8,300	5,100	229	121
MIN	45	146	134	122	117	113	308	268	161	60	34	33
CFSM	.61	2.59	1.77	2.75	2.17	4.52	5.07	4.25	4.33	3.62	.51	.38
IN.	.70	2.90	2.04	3.17	2.26	5.21	5.66	4.90	4.83	4.18	.59	.43

CAL YR 1972 TOTAL 106,261 MEAN 290 MAX 2,300 MIN 34 CFSM 2.03 IN 27.64
WTR YR 1973 TOTAL 141,749 MEAN 388 MAX 8,300 MIN 33 CFSM 2.71 IN 36.87

PEAK DISCHARGE (BASE, 3,600 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0230	7.77	4,470				
6-30	2130	14.45	11,700				

01076500 Pemigewasset River at Plymouth, N.H.

LOCATION.--Lat 43°45'33", long 71°41'10", Grafton County, on right bank 150 ft (46 m) downstream from bridge at Plymouth and 0.3 mi (0.5 km) downstream from Baker River.

DRAINAGE AREA.--622 mi² (1,611 km²).

PERIOD OF RECORD.--October 1903 to current year. Records for April 1886 to September 1903, published in WSP 124, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 457.07 ft (139.315 m) above mean sea level. Prior to Jan. 1, 1910, nonrecording gage at sites 150 ft (46 m) and 200 ft (60 m) upstream at present datum or datum 1.11 ft (0.338 m) lower. Jan. 1, 1910, to Sept. 30, 1926, nonrecording gage at site 200 ft (60 m) upstream at present datum.

AVERAGE DISCHARGE.--70 years, 1,342 ft³/s (38.01 m³/s), 29.30 in/yr (744 mm/yr).

EXTREMES.--Current year: Maximum discharge, 47,600 ft³/s (1,350 m³/s) July 1 (gage height, 22.33 ft or 6.806 m); minimum, 224 ft³/s (6.34 m³/s) Sept. 5, 6.

Period of record: Maximum discharge, 65,400 ft³/s (1,850 m³/s) Mar. 19, 1936 (gage height, 29.0 ft or 8.84 m, from floodmarks), from rating curve extended above 43,000 ft³/s (1,220 m³/s) on basis of computations of flow over dam at gage heights 23.0, 27.4, and 29.0 ft (7.01, 8.35, and 8.84 m); minimum, 39 ft³/s (1.10 m³/s) Oct. 1, 3, 4, 1948; minimum daily, 45 ft³/s (1.27 m³/s) Sept. 20, 1923.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation during period 1940-52 caused by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 471: 1912-14. WSP 726: Drainage area. WSP 1231: 1904-11, 1913-14, 1917-18, 1919(M), 1920-25, 1926-27(M), 1929-31(M). WSP 1721: 1959(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	930	1,500	1,200	1,130	600	3,170	2,600	2,750	31,600	355	259
2	353	780	1,300	2,500	1,400	580	6,470	2,380	2,370	11,200	700	247
3	282	2,120	1,100	1,500	6,500	570	5,130	2,640	2,060	5,300	2,290	243
4	257	1,990	1,000	1,100	8,000	560	3,670	3,470	1,840	5,080	1,100	231
5	245	1,360	900	1,100	4,300	630	3,470	2,590	3,070	10,500	678	228
6	232	1,110	1,400	950	2,700	700	3,060	2,170	2,450	4,800	509	289
7	276	990	4,200	800	2,200	640	2,750	2,010	2,080	3,210	444	1,010
8	1,380	990	2,300	750	2,000	1,400	2,550	1,860	1,880	2,560	400	451
9	1,010	3,310	2,400	800	1,700	4,000	2,280	2,120	1,690	2,170	370	340
10	670	2,990	2,600	820	1,250	3,500	2,150	4,880	1,550	1,860	350	293
11	503	1,910	2,100	820	1,200	2,800	2,040	3,710	1,430	1,710	412	267
12	440	1,520	1,500	780	1,100	2,900	1,850	4,880	1,670	1,460	623	255
13	458	1,280	1,500	760	1,050	7,000	1,750	3,680	2,080	1,220	444	239
14	449	1,190	1,500	740	1,000	5,200	1,690	2,770	2,380	1,510	376	235
15	449	1,190	1,300	740	1,050	3,230	1,770	2,320	1,760	1,820	382	243
16	530	1,030	1,200	740	1,000	2,920	2,050	2,580	1,690	1,350	382	251
17	449	830	1,100	720	880	5,840	3,370	2,650	4,580	1,030	345	239
18	440	900	1,000	700	800	15,700	4,720	2,220	2,550	875	320	284
19	408	800	1,100	800	850	6,640	5,090	2,640	1,950	778	311	1,130
20	376	1,340	1,100	2,000	900	3,920	5,020	2,400	1,720	667	298	536
21	346	1,910	1,050	3,500	840	2,990	3,690	4,740	1,580	713	284	388
22	331	1,270	1,000	2,500	780	2,590	4,950	8,510	1,560	689	271	345
23	346	910	1,000	5,000	720	2,300	7,150	4,880	1,520	563	267	935
24	521	1,050	960	6,500	670	2,210	4,820	3,300	1,400	493	259	752
25	543	930	940	4,000	640	2,250	3,300	2,680	1,570	451	247	527
26	458	2,330	920	2,500	620	3,050	2,840	2,340	1,440	424	243	430
27	408	5,420	920	1,900	600	3,980	2,430	2,080	1,310	430	239	382
28	384	2,640	900	1,600	590	3,000	3,450	2,030	2,700	472	275	345
29	560	2,090	850	1,500	------	2,620	4,770	3,300	4,200	479	394	316
30	1,590	1,620	800	1,350	------	2,380	3,350	2,680	31,200	406	293	298
31	1,140	------	900	1,200	------	2,540	------	2,430	------	376	267	------
TOTAL	16,207	48,630	42,440	51,870	46,440	99,240	104,800	95,540	92,030	96,196	14,128	11,988
MEAN	523	1,621	1,369	1,673	1,659	3,201	3,493	3,082	3,068	3,103	456	400
MAX	1,590	5,420	4,200	6,500	8,000	15,700	7,150	8,510	31,200	31,600	2,290	1,130
MIN	232	780	800	700	590	560	1,690	1,860	1,310	376	239	228
CFSM	.84	2.61	2.20	2.69	2.67	5.15	5.62	4.96	4.93	4.99	.73	.64
IN.	.97	2.91	2.54	3.10	2.78	5.94	6.27	5.71	5.50	5.75	.84	.72

CAL YR 1972 TOTAL 542,824 MEAN 1,483 MAX 13,700 MIN 221 CFSM 2.38 IN 32.46
WTR YR 1973 TOTAL 719,509 MEAN 1,971 MAX 31,600 MIN 228 CFSM 3.17 IN 43.03

PEAK DISCHARGE (BASE, 12,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0600	12.14	20,100				
7-1	0030	22.33	47,600				
7-5	0300	10.01	14,700				

01077000 Squam River at Ashland, N.H.

LOCATION.--Lat 43°42'19", long 71°37'49", Grafton County, on right bank 200 ft (60 m) upstream from highway bridge, 0.7 mi (1.1 km) north of Ashland, and 1.4 mi (2.3 km) downstream from Little Squam Lake.

DRAINAGE AREA.--57.6 mi^2 (149.2 km^2).

PERIOD OF RECORD.--August 1939 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 545 ft (166 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 87.0 ft^3/s (2.464 m^3/s).

EXTREMES.--Current year: Maximum discharge, 1,090 ft^3/s (30.9 m^3/s) July 4 (gage height, 14.29 ft or 4.356 m); minimum daily, 36 ft^3/s (1.02 m^3/s) Sept. 1.

Period of record: Maximum discharge, 1,090 ft^3/s (30.9 m^3/s) July 4, 1973 (gage height, 14.29 ft or 4.356 m); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Nov. 28, 1969.

REMARKS.--Records excellent. Flow completely regulated by Squam and Little Squam Lakes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	75	130	128	128	154	119	124	183	553	68	36
2	77	75	130	128	128	154	151	122	183	542	84	59
3	77	75	128	126	132	154	207	122	181	535	107	59
4	79	58	128	126	130	154	207	122	181	604	107	66
5	79	75	130	126	130	154	209	120	191	986	106	75
6	77	75	130	126	130	154	209	120	198	962	106	75
7	79	75	130	128	130	151	207	118	196	968	105	75
8	77	77	130	126	130	137	207	118	171	948	105	75
9	77	77	130	126	130	124	209	120	120	954	105	75
10	77	75	130	126	130	124	220	124	117	944	105	75
11	77	75	130	126	130	124	226	160	117	916	105	75
12	77	75	130	126	130	124	220	196	122	882	105	75
13	77	75	130	126	130	126	217	196	126	854	105	74
14	77	75	130	126	143	96	217	196	126	825	105	74
15	77	75	94	126	156	74	217	196	122	800	105	74
16	77	75	66	126	156	74	217	196	124	705	105	74
17	77	75	66	126	156	79	167	196	124	576	90	74
18	75	75	111	126	156	77	100	198	118	149	76	74
19	75	75	128	126	156	96	100	198	118	109	77	74
20	75	77	128	126	156	128	98	198	118	107	76	74
21	75	77	128	126	156	128	98	247	117	107	76	74
22	75	75	128	126	156	128	98	301	113	107	75	74
23	75	75	128	130	156	128	96	301	113	107	70	74
24	75	75	128	130	156	128	96	301	111	107	59	74
25	75	75	128	126	154	130	94	301	111	107	59	74
26	75	79	128	128	154	130	96	301	113	107	59	74
27	75	75	128	128	154	130	98	301	118	107	59	74
28	75	96	126	128	154	129	139	253	120	106	59	74
29	75	130	126	128	------	124	217	186	122	105	59	73
30	75	130	126	128	------	119	183	183	345	83	58	72
31	75	------	126	128	------	119	------	186	------	68	58	------
TOTAL	2,367	2,376	3,809	3,932	4,007	3,851	4,939	6,001	4,319	15,030	2,638	2,149
MEAN	76.4	79.2	123	127	143	124	165	194	144	485	85.1	71.6
MAX	79	130	130	130	156	154	226	301	345	986	107	75
MIN	75	58	66	126	128	74	94	118	111	68	58	36

CAL YR 1972 TOTAL 33,216 MEAN 90.8 MAX 308 MIN 18
WTR YR 1973 TOTAL 55,418 MEAN 152 MAX 986 MIN 36

01078000 Smith River near Bristol, N.H.

LOCATION.--Lat 43°34'04", long 71°44'54", Merrimack County, on right bank in Hill, 1.5 mi (2.4 km) upstream from mouth and 1.8 mi (2.9 km) southwest of Bristol.

DRAINAGE AREA.--85.8 mi² (222.2 km²).

PERIOD OF RECORD.--May 1918 to current year.

GAGE.--Water-stage recorder. Datum of gage is 449.80 ft (137.099 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 25, 1933, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--55 years, 142 ft³/s (4.021 m³/s), 22.48 in/yr (571 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,320 ft³/s (94.0 m³/s) June 30 (gage height, 9.27 ft or 2.825 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) by logarithmic plotting; minimum, 12 ft³/s (0.34 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 8,100 ft³/s (229 m³/s) Mar. 19, 1936 (gage height, 16.09 ft or 4.904 m, from floodmarks), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 2.7 ft³/s (0.076 m³/s) Aug. 2, 1933.

Maximum stage since at least 1885, that of Mar. 19, 1936.

REMARKS.--Record excellent except those for winter period, which are fair. Prior to 1954, some diurnal fluctuation caused by small mill above station; greater fluctuation prior to 1941.

REVISIONS (WATER YEARS).--WSP 711: Drainage area. WSP 781: 1934. WSP 1231: 1919, 1920-21(M), 1922-31, 1932-33(M), 1941-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	67	245	150	149	71	369	256	242	2,700	32	54
2	18	70	220	240	158	72	979	220	220	1,640	118	48
3	16	142	180	200	493	71	1,130	201	189	822	282	36
4	14	138	160	165	563	75	884	212	156	844	181	32
5	12	105	140	150	525	91	746	205	142	1,340	105	28
6	12	90	160	120	365	109	670	183	140	1,400	69	27
7	39	79	409	95	261	114	592	160	133	822	55	27
8	153	91	360	100	225	140	539	143	125	470	47	24
9	88	350	330	85	190	235	452	179	108	267	42	23
10	52	439	330	80	150	300	385	347	90	198	38	21
11	40	288	250	80	125	270	350	373	75	172	38	19
12	35	201	170	78	121	320	300	448	91	147	46	19
13	35	164	170	75	120	644	264	354	121	117	41	37
14	33	142	160	73	117	684	248	273	143	103	36	30
15	33	145	150	71	118	475	270	222	114	97	43	27
16	33	131	140	70	117	369	358	242	99	95	49	24
17	33	105	130	68	103	844	511	279	177	82	44	21
18	30	102	110	75	95	1,390	582	245	158	71	37	28
19	28	93	115	115	97	1,170	553	282	120	65	32	47
20	27	220	110	310	99	722	448	253	95	60	29	42
21	25	358	105	380	98	418	330	756	80	57	27	33
22	25	230	105	350	101	310	282	1,330	86	56	24	33
23	27	150	105	450	101	267	264	954	138	49	23	62
24	32	140	105	540	94	261	227	618	120	45	21	56
25	37	128	105	510	86	285	196	381	120	41	20	48
26	38	525	100	409	83	426	175	285	106	39	19	43
27	36	807	100	294	75	550	196	240	95	46	18	35
28	35	633	94	240	72	476	489	222	210	46	25	31
29	61	461	80	196	------	365	507	273	358	40	32	27
30	103	326	85	170	------	310	340	261	2,010	36	30	24
31	91	------	90	158	------	304	------	288	------	33	28	------
TOTAL	1,262	6,920	5,113	6,097	4,901	12,138	13,636	10,687	6,061	12,000	1,631	1,006
MEAN	40.7	231	165	197	175	392	455	345	202	387	52.6	33.5
MAX	153	807	409	540	563	1,390	1,130	1,330	2,010	2,700	282	62
MIN	12	67	80	68	72	71	175	143	75	33	18	19
CFSM	.47	2.69	1.92	2.30	2.04	4.57	5.30	4.02	2.35	4.51	.61	.39
IN.	.55	3.00	2.22	2.64	2.12	5.26	5.91	4.63	2.63	5.20	.71	.44

CAL YR 1972 TOTAL 64,242 MEAN 176 MAX 1,380 MIN 11 CFSM 2.05 IN 27.85
WTR YR 1973 TOTAL 81,452 MEAN 223 MAX 2,700 MIN 12 CFSM 2.60 IN 35.31

PEAK DISCHARGE (BASE, 1,150 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	2230	6.46	1,610	6-30	2300	9.27	3,320
4-3	0530	5.58	1,160	7-4	2200	7.27	2,090
5-22	0630	6.11	1,430				

01080000 Lake Winnipesaukee at Weirs Beach, N.H.

LOCATION.--Lat 43°36'27", long 71°27'30", Belknap County, 1,300 ft (400 m) north of highway bridge at Weirs Beach.

DRAINAGE AREA.--363 mi² (940 km²) at outlet at Lakeport.

PERIOD OF RECORD.--September 1933 to current year. Prior to November 1937, monthend contents only, published in WSP 1301. Prior to October 1970, published as "at The Weirs."

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level. Prior to November 1937, nonrecording gage at lake outlet at Lakeport at datum 0.53 ft (0.162 m) higher. Nov. 24, 1937, to Nov. 7, 1965, water-stage recorder at site 500 ft (150 m) south at present datum.

EXTREMES.--Current year: Maximum daily gage height, 5.33 ft (1.625 m) July 6; minimum daily, 2.23 ft (0.680 m) Mar. 6, 7.
Period of record: Maximum daily gage height, 5.86 ft (1.786 m) May 22, 23, 1954; minimum daily, 0.63 ft (0.192 m) Dec. 11, 1941.

REMARKS.--Lake used for recreation and conservation for development of water power. Usable capacity, 7,220,000,000 ft³ (204,000,000 m³) between elevations 500.65 ft (152.598 m) and 504.32 ft (153.717 m) above mean sea level. Stage regulated at outlet and by Wentworth, Merrymeeting (see p. 69), and other lakes. Contents given herein are computed from gage height at 2400 on last day of month, eliminating the effect of seiche and wind action.

Capacity table (gage height, in feet, and contents, in millions of cubic feet)

2.0	13,880
3.0	15.840
4.0	17,840
5.0	19,850
5.5	20,870

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.45	2.98	3.75	3.57	2.97	2.36	3.71	4.52	4.48	4.92	4.30	3.85
2	3.43	2.99	3.77	3.54	2.98	2.33	3.91	4.50	4.44	4.99	4.41	3.85
3	3.42	3.02	3.78	3.52	3.09	2.29	4.05	4.48	4.40	5.01	4.55	3.83
4	3.39	3.05	3.80	3.53	3.12	2.27	4.15	4.44	4.37	5.07	4.55	3.81
5	3.36	3.05	3.84	3.49	3.13	2.25	4.22	4.41	4.39	5.26	4.50	3.80
6	3.34	3.05	3.87	3.44	3.14	2.23	4.24	4.37	4.40	5.33	4.47	3.77
7	3.37	3.04	3.92	3.38	3.11	2.23	4.27	4.35	4.42	5.32	4.43	3.73
8	3.37	3.08	3.96	3.37	3.10	2.28	4.32	4.33	4.43	5.28	4.39	3.58
9	3.33	3.12	4.02	3.34	3.06	2.33	4.31	4.38	4.44	5.23	4.34	3.61
10	3.29	3.12	4.05	3.30	3.05	2.35	4.36	4.46	4.44	5.18	4.30	3.58
11	3.28	3.14	4.04	3.26	3.01	2.38	4.35	4.52	4.46	5.09	4.25	3.54
12	3.25	3.14	4.04	3.21	2.98	2.41	4.33	4.55	4.55	4.97	4.20	3.51
13	3.23	3.14	4.01	3.18	2.94	2.45	4.31	4.56	4.59	4.88	4.13	3.48
14	3.21	3.17	4.00	3.14	2.90	2.54	4.31	4.57	4.59	4.80	4.13	3.46
15	3.15	3.21	4.00	3.09	2.90	2.60	4.29	4.58	4.58	4.73	4.12	3.45
16	3.14	3.20	3.98	3.05	2.87	2.65	4.28	4.60	4.57	4.66	4.11	3.40
17	3.09	3.21	3.88	3.02	2.84	2.78	4.29	4.63	4.58	4.58	4.09	3.38
18	3.08	3.21	3.90	2.99	2.79	3.00	4.32	4.64	4.56	4.50	4.08	3.39
19	3.05	3.21	3.87	2.95	2.77	3.10	4.35	4.63	4.54	4.44	4.38	3.40
20	3.02	3.28	3.86	2.95	2.74	3.19	4.37	4.63	4.53	4.41	4.05	3.37
21	3.00	3.30	3.82	2.95	2.70	3.25	4.39	4.71	4.52	4.41	4.03	3.34
22	2.99	3.32	3.79	2.93	2.65	3.30	4.40	4.78	4.51	4.40	4.01	3.34
23	2.99	3.31	3.76	3.02	2.60	3.34	4.40	4.81	4.51	4.38	3.97	3.36
24	2.99	3.31	3.72	3.03	2.55	3.37	4.43	4.80	4.52	4.37	3.94	3.38
25	2.97	3.32	3.69	3.04	2.52	3.42	4.44	4.75	4.52	4.35	3.93	3.35
26	2.95	3.44	3.65	3.03	2.48	3.50	4.45	4.70	4.50	4.34	3.91	3.33
27	2.94	3.52	3.60	3.02	2.44	3.56	4.50	4.64	4.51	4.34	3.90	3.31
28	2.93	3.60	3.57	3.00	2.40	3.59	4.55	4.60	4.54	4.34	3.92	3.29
29	2.97	3.64	3.52	3.02	------	3.63	4.53	4.56	4.58	4.33	3.90	3.25
30	2.99	3.68	3.51	3.02	------	3.65	4.53	4.52	4.80	4.32	3.89	3.22
31	2.99	------	3.54	2.99	------	3.67	------	4.51	------	4.32	3.87	------
MEAN	3.16	3.23	3.82	3.17	2.85	2.85	4.31	4.57	4.51	4.73	4.15	3.50
MAX	3.45	3.69	4.05	3.57	3.14	3.67	4.55	4.81	4.80	5.33	4.55	3.85
MIN	2.93	2.98	3.51	2.93	2.40	2.23	3.71	4.33	4.37	4.32	3.87	3.22
(†)	15,830	17,260	16,980	15,810	14,620	17,220	18,900	18,820	19,630	18,460	17,540	16,260
(‡)	-347	+552	-105	-437	-492	+971	+648	-29.9	+312	-437	-343	-494

CAL YR 1972 MEAN 3.61 MAX 4.71 MIN 2.52 (†) +48.4
WTR YR 1973 MEAN 3.74 MAX 5.33 MIN 2.23 (‡) -15.9

† Contents, in millions of cubic feet, at 2400 on last day of month.
‡ Change in contents, equivalent in cubic feet per second.

01080500 Lake Winnipesaukee Outlet at Lakeport, N.H.

LOCATION.--Lat 43°32'57", long 71°27'54", Belknap County, 100 ft (30 m) upstream from highway bridge across Paugus Bay at Lakeport.

DRAINAGE AREA.--363 mi^2 (940 km^2).

PERIOD OF RECORD.--January 1860 to December 1911 (monthly gage heights only, published in WSP 301), June 1933 to current year.

GAGE.--Water-stage recorder, Keeler deflection meter, and measuring flume. Datum of gage is 500.55 ft (152.568 m) above mean sea level, datum of 1929. January 1860 to December 1911, nonrecording gage at site 150 ft (46 m) downstream at same datum. June 1, 1933, to Sept. 30, 1936, nonrecording gage and continuous-recording current meter at present site and datum. Oct. 1, 1936, to May 23, 1944, discharge computed from flow over spillway and through gates and wheels at site 150 ft (46 m) downstream.

AVERAGE DISCHARGE.--40 years, 528 ft^3/s (14.95 m^3/s).

EXTREMES.--Current year: Maximum daily discharge, 2,430 ft^3/s (68.8 m^3/s) July 6; minimum daily, 250 ft^3/s (7.08 m^3/s) Mar. 14.
Period of record: Maximum daily discharge, 2,890 ft^3/s (81.8 m^3/s) Mar. 31, 1936; no flow Sept. 29, 1962.

REMARKS.--Records good. Flow completely regulated by Winnipesaukee (see preceding page), Wentworth, Merrymeeting (see p. 69), and other lakes. Daily discharge computed from relation between discharge, stage, and deflection of vane in measuring flume.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	515	280	315	1,350	1,370	1,320	525	1,240	1,720	1,410	285	330
2	515	275	315	1,350	1,390	1,310	685	1,240	1,710	1,560	535	330
3	515	275	315	1,340	1,410	1,270	925	1,230	1,710	1,930	1,040	335
4	515	275	315	1,350	1,410	1,260	1,070	1,230	1,400	1,840	1,040	335
5	510	285	320	1,370	1,410	1,090	1,210	1,170	495	2,250	1,040	335
6	510	290	480	1,360	1,430	560	1,210	1,160	450	2,430	1,030	335
7	515	290	820	1,350	1,430	555	1,210	915	410	2,420	1,030	440
8	510	295	825	1,350	1,430	560	1,220	430	435	2,410	1,030	520
9	510	295	825	1,340	1,420	565	1,250	440	410	2,400	1,020	515
10	505	295	830	1,340	1,410	550	1,270	445	425	2,390	1,010	515
11	505	295	825	1,330	1,410	565	1,260	575	435	2,370	1,010	510
12	505	285	1,000	1,350	1,390	555	1,250	825	430	2,330	1,000	510
13	500	285	1,340	1,340	1,380	475	1,250	825	440	2,290	755	510
14	500	290	1,380	1,330	1,380	250	1,250	825	590	2,260	280	510
15	495	295	1,390	1,320	1,400	255	1,250	830	825	2,240	280	535
16	490	295	1,380	1,310	1,390	255	970	830	825	1,990	280	535
17	490	295	1,360	1,310	1,380	260	490	830	830	1,760	280	415
18	490	295	1,360	1,340	1,370	265	490	920	810	1,750	280	355
19	410	295	1,360	1,330	1,360	275	535	1,080	910	1,310	280	535
20	275	300	1,360	1,330	1,350	280	495	1,100	835	290	280	545
21	275	300	1,350	1,330	1,350	280	495	1,290	660	290	280	550
22	275	300	1,350	1,360	1,340	285	485	1,480	410	290	290	540
23	275	300	1,350	1,370	1,330	295	485	1,810	395	290	280	535
24	265	300	1,330	1,370	1,320	295	490	2,080	410	290	290	535
25	265	300	1,330	1,390	1,300	295	490	2,070	410	290	275	535
26	265	305	1,330	1,390	1,300	300	555	2,350	405	290	275	530
27	265	305	1,320	1,390	1,340	375	655	2,030	415	290	275	530
28	270	310	1,310	1,380	1,330	515	865	2,020	570	290	310	540
29	275	310	1,340	1,390	------	520	1,240	2,020	880	290	410	525
30	275	310	1,340	1,380	------	510	1,240	2,010	1,150	285	410	525
31	275	------	1,350	1,400	------	520	------	1,910	------	285	410	------
TOTAL	12,760	8,815	32,815	41,930	38,520	16,675	25,795	38,910	21,840	42,415	17,280	14,535
MEAN	412	294	1,059	1,353	1,376	538	860	1,255	728	1,368	557	486
MAX	515	310	1,390	1,400	1,430	1,320	1,270	2,080	1,720	2,430	1,040	550
MIN	265	275	315	1,310	1,300	250	485	430	395	285	275	355

CAL YR 1972 TOTAL 224,155 MEAN 612 MAX 1,590 MIN 195
WTR YR 1973 TOTAL 313,325 MEAN 858 MAX 2,430 MIN 250

01081000 Winnipesaukee River at Tilton, N.H.

LOCATION.--Lat 43°26'31", long 71°35'20", Belknap County, on right bank at Tilton and 0.3 mi (0.5 km) upstream from Packer Brook.

DRAINAGE AREA.--471 mi² (1,220 km²).

PERIOD OF RECORD.--January 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 441.87 ft (134.682 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--36 years, 690 ft³/s (19.54 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,870 ft³/s (81.3 m³/s) July 6 (gage height, 6.88 ft or 2.097 m); minimum daily, 238 ft³/s (6.74 m³/s) Aug. 26, 27.

Period or record: Maximum discharge, 3,810 ft³/s (108 m³/s) Sept. 21, 1938 (gage height, 7.90 ft or 2.408 m); maximum gage height, 7.93 ft (2.417 m) Mar. 27, 1953; minimum daily discharge, 48 ft³/s (1.36 m³/s) Aug. 31, 1941.

REMARKS.--Records excellent. Flow regulated by powerplants prior to 1967 and by Winnipesaukee (see sta 01080000), Winnisquam 4.5 mi (7.2 km) upstream, Wentworth, Merrymeeting (see p. 69), and other lakes above station.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	519	283	714	1,650	1,590	1,450	857	1,520	2,420	2,560	289	307
2	551	290	686	1,700	1,690	1,440	1,460	1,520	2,290	2,340	436	303
3	649	336	657	1,680	2,010	1,430	2,210	1,510	2,160	2,220	966	321
4	691	329	650	1,550	2,290	1,440	2,150	1,510	2,070	2,260	1,100	340
5	757	314	734	1,630	2,130	1,420	2,130	1,500	1,900	2,650	1,100	351
6	767	309	819	1,560	1,990	962	2,170	1,490	1,490	2,860	1,150	362
7	763	306	1,170	1,490	1,900	862	2,150	1,470	909	2,860	1,220	382
8	764	316	1,200	1,570	1,830	894	2,100	1,140	791	2,840	1,220	382
9	745	367	1,210	1,630	1,790	975	2,060	676	659	2,810	1,210	398
10	723	368	1,240	1,510	1,740	978	1,970	759	629	2,760	1,200	411
11	710	347	1,210	1,490	1,710	950	1,970	863	607	2,700	1,190	419
12	691	339	1,130	1,490	1,670	985	1,920	1,090	634	2,630	1,180	441
13	654	342	1,170	1,460	1,650	1,160	1,870	1,100	645	2,560	1,180	454
14	616	365	1,300	1,450	1,630	1,170	1,850	1,080	706	2,510	942	453
15	589	399	1,390	1,440	1,630	1,040	1,800	1,070	927	2,480	472	486
16	561	395	1,480	1,430	1,610	960	1,770	1,100	968	2,460	406	486
17	549	385	1,530	1,420	1,600	1,110	1,570	1,120	1,000	2,370	370	490
18	544	380	1,550	1,430	1,580	1,460	991	1,130	983	2,260	344	495
19	515	376	1,550	1,440	1,560	1,260	855	1,360	966	2,170	321	490
20	439	507	1,570	1,660	1,550	1,080	785	1,400	953	1,760	303	486
21	357	588	1,580	1,690	1,540	937	780	1,640	919	755	286	499
22	342	538	1,600	1,690	1,530	788	775	2,060	677	571	279	517
23	338	474	1,590	1,910	1,530	729	770	2,080	641	504	265	576
24	316	454	1,580	2,060	1,510	698	760	2,070	631	450	258	589
25	273	445	1,580	1,980	1,490	690	637	2,160	622	411	244	589
26	263	614	1,570	1,880	1,480	744	637	2,240	606	378	238	580
27	259	854	1,580	1,820	1,460	841	715	2,270	577	359	238	571
28	260	823	1,570	1,780	1,450	893	990	2,310	627	340	247	598
29	281	758	1,550	1,750	------	872	1,450	2,380	778	325	265	651
30	295	726	1,550	1,740	------	860	1,520	2,390	1,670	311	293	639
31	292	------	1,590	1,710	------	854	------	2,420	------	300	314	------
TOTAL	16,043	13,327	40,300	50,880	47,140	31,932	43,672	48,428	31,455	54,763	19,526	14,086
MEAN	518	444	1,300	1,641	1,684	1,030	1,456	1,562	1,049	1,767	630	470
MAX	764	854	1,600	2,060	2,290	1,460	2,210	2,420	2,420	2,860	1,220	651
MIN	259	283	650	1,420	1,450	690	637	676	577	300	238	303

CAL YR 1972 TOTAL 288,172 MEAN 787 MAX 2,390 MIN 228
WTR YR 1973 TOTAL 411,552 MEAN 1,128 MAX 2,860 MIN 238

01081500 Merrimack River at Franklin Junction, N.H.

LOCATION.--Lat 43°25'26", long 71°39'12", Merrimack County, on right bank at Franklin Junction, 1 mi (1.6 km) downstream from confluence of Pemigewasset and Winnipesaukee Rivers.

DRAINAGE AREA.--1,507 mi² (3,903 km²).

PERIOD OF RECORD.--July 1903 to January 1904, March 1904 to January 1905, March 1905 to current year.

GAGE.--Water-stage recorder. Datum of gage is 250.4 ft (76.32 m) above mean sea level, unadjusted. Prior to Sept. 13, 1923, nonrecording gage at bridge 350 ft (100 m) downstream at same datum.

AVERAGE DISCHARGE.--68 years (1905-73) 2,745 ft³/s (77.74 m³/s), 24.74 in/yr (628 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,100 ft³/s (541 m³/s) June 30 (gage height, 14.64 ft or 4.462 m); minimum daily, 621 ft³/s (17.6 m³/s) Aug. 21.

Period of record: Maximum discharge, 83,000 ft³/s (2,350 m³/s) Mar. 19, 1936 (gage height, 36.4 ft or 11.09 m, from floodmarks), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of slope-area measurement and computation of flow over dam at gage height 29.5 ft (8.99 m) and velocity-area study; minimum daily, 169 ft³/s (4.79 m³/s) Aug. 28, 1965. Maximum discharge since construction of Franklin Falls Reservoir in 1942, 22,400 ft³/s (634 m³/s) Apr. 4, 1951 (gage height, 16.34 ft or 4.980 m).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants, by Franklin Falls Reservoir (4 mi or 6 km upstream) since 1942, and by Squam, Little Squam, Newfound, Winnipesaukee, Winnisquam, Wentworth, Merrymeeting, and other lakes. See page 69 for description and monthend contents of many of these reservoirs.

REVISIONS (WATER YEARS).--WSP 401: 1914. WSP 641: 1923(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1911-13, 1916-17(M), 1919(M), 1922(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	924	1,880	3,430	3,040	3,300	2,650	5,260	5,120	5,840	16,300	1,190	711
2	900	1,660	3,220	4,090	3,250	2,880	8,870	4,970	5,840	16,100	2,060	752
3	1,020	2,090	3,100	4,710	7,370	2,900	12,500	4,770	5,440	15,800	4,050	1,060
4	1,070	2,680	2,630	4,050	13,700	2,900	10,400	5,200	5,060	15,500	3,440	1,270
5	1,160	2,580	2,430	3,870	11,400	2,960	9,490	6,060	5,050	15,700	2,550	853
6	1,210	2,010	2,540	3,400	7,930	3,170	9,150	5,090	5,600	16,600	2,460	776
7	1,490	1,740	5,500	3,300	5,480	2,840	8,630	4,360	4,150	16,300	2,220	976
8	1,910	1,750	5,750	3,100	5,340	2,440	7,840	3,400	3,590	16,100	2,230	1,130
9	2,100	3,330	4,070	2,900	5,090	3,390	7,040	2,870	2,940	15,700	2,190	1,210
10	1,570	4,730	4,790	2,700	4,600	4,850	5,970	5,460	2,640	15,200	2,170	1,130
11	1,550	3,570	4,610	2,800	3,800	4,910	6,110	6,980	2,230	13,600	2,000	1,030
12	1,460	2,640	3,650	2,800	3,700	4,500	5,770	7,360	2,070	14,600	1,970	970
13	1,430	2,050	3,510	2,800	3,600	6,640	4,960	7,500	3,040	10,100	2,580	1,030
14	1,040	2,070	3,690	2,700	3,600	9,280	4,780	6,030	3,590	5,560	2,050	1,010
15	1,140	2,390	3,730	2,700	3,620	7,640	4,750	4,470	3,900	5,150	1,080	1,040
16	1,230	2,080	3,320	2,700	3,760	5,880	4,900	4,390	3,650	5,370	1,470	1,030
17	1,380	1,950	3,230	2,800	3,500	7,060	5,050	5,440	4,820	4,780	1,160	1,030
18	1,210	1,790	3,350	2,850	3,300	14,700	7,190	5,200	5,880	4,270	836	1,010
19	1,200	1,300	3,300	3,720	3,160	16,100	8,090	5,060	4,140	3,630	858	959
20	1,040	2,110	3,200	3,490	3,170	10,800	8,540	5,180	3,350	3,280	854	872
21	932	3,150	3,350	5,620	3,320	7,150	7,690	6,680	2,780	1,730	621	1,240
22	770	2,970	3,380	5,290	3,210	5,720	6,430	12,200	2,340	1,640	881	1,300
23	868	2,340	3,290	6,560	3,090	4,900	8,030	12,100	2,560	1,700	885	1,520
24	996	2,050	3,170	9,780	3,110	4,510	8,730	10,000	2,460	1,800	952	1,830
25	924	1,780	3,200	9,070	3,130	4,330	6,640	9,830	2,220	1,640	819	1,360
26	1,060	3,360	3,210	6,340	3,210	4,870	4,860	7,060	2,250	1,220	787	1,620
27	1,000	7,920	3,200	5,730	3,070	6,540	4,250	6,340	2,230	1,450	1,210	1,390
28	800	6,570	3,210	5,500	2,860	6,920	4,910	6,040	3,220	1,370	996	1,150
29	968	5,060	3,100	5,020	------	5,980	7,850	6,270	5,250	1,320	915	1,330
30	1,790	3,560	3,090	3,810	------	5,160	7,760	7,170	12,800	1,350	1,200	1,150
31	2,080	------	2,990	3,500	------	4,810	------	6,730	------	1,210	749	------
TOTAL	38,242	85,160	108,240	130,440	127,670	179,280	213,440	195,330	120,330	246,090	49,323	33,729
MEAN	1,234	2,839	3,492	4,208	4,560	5,783	7,115	6,301	4,011	7,938	1,591	1,124
MAX	2,100	7,920	5,750	9,780	13,700	16,100	12,500	12,200	12,830	16,600	4,050	1,830
MIN	770	1,300	2,430	2,700	2,860	2,440	4,250	2,870	2,040	1,210	621	711
CFSM	.82	1.88	2.32	2.79	3.03	3.84	4.72	4.18	2.66	5.27	1.06	.75
IN.	.94	2.10	2.67	3.22	3.15	4.43	5.27	4.82	2.97	6.07	1.22	.83

CAL YR 1972 TOTAL 1,113,632 MEAN 3,043 MAX 16,500 MIN 549 CFSM 2.02 IN 27.49
WTR YR 1973 TOTAL 1,527,274 MEAN 4,184 MAX 16,600 MIN 621 CFSM 2.78 IN 37.70

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01082000 Contoocook River at Peterborough, N.H.

LOCATION.--Lat 42°51'45", long 71°57'35", Hillsborough County, on left bank 1,100 ft (350 m) downsteam from milldam, 1 mi (1.6 km) south of Peterborough, and 1.5 mi (2.4 km) upstream from Nubanusit Brook.

DRAINAGE AREA.--68.1 mi² (176.4 km²).

PERIOD OF RECORD.--July 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m) from topographic map.

AVERAGE DISCHARGE.--28 years, 116 ft³/s (3.285 m³/s), 23.13 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,310 ft³/s (37.1 m³/s) Mar. 17 (gage height, 4.67 ft or 1.423 m); minimum daily, 16 ft³/s (0.45 m³/s) Oct. 6.

Period of record: Maximum discharge, 2,640 ft³/s (74.8 m³/s) Nov. 26, 1950 (gage height, 6.35 ft or 1.935 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s); minimum daily, 0.8 ft³/s (0.023 m³/s) Sept. 15, 16, 1953.

Flood in September 1938 reached a stage of about 15 ft (4.6 m), from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Flow slightly regulated by mill and reservoirs above station; regulation greater prior to 1965.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	36	221	200	140	75	253	188	122	715	40	24
2	18	42	191	370	130	74	918	160	104	459	90	22
3	18	69	169	270	250	76	790	144	89	286	169	21
4	17	65	155	200	550	113	545	142	81	196	218	20
5	17	59	150	180	450	160	475	130	84	212	126	19
6	16	55	234	150	300	172	443	118	96	186	81	22
7	58	55	614	135	230	157	415	109	87	142	69	30
8	112	66	400	125	200	325	377	102	99	115	62	24
9	71	257	350	120	180	464	317	124	86	94	57	21
10	46	203	300	110	170	391	394	165	78	80	53	21
11	39	134	250	110	160	314	447	212	72	77	50	19
12	38	107	210	105	150	361	363	230	68	68	47	18
13	40	90	190	105	145	541	293	207	117	59	45	18
14	39	94	170	105	145	500	244	166	166	56	42	17
15	42	109	160	100	150	423	215	142	124	54	44	18
16	37	96	150	100	140	453	193	174	104	54	57	18
17	35	84	200	100	125	806	181	165	106	50	50	18
18	32	79	250	100	110	1,030	166	164	92	47	44	27
19	30	75	150	200	105	680	155	196	83	45	40	36
20	28	221	125	450	105	500	140	171	74	42	37	27
21	26	253	120	400	105	377	128	479	68	117	33	24
22	25	199	115	350	104	303	120	479	64	111	32	22
23	25	148	110	450	101	256	113	365	65	77	30	28
24	67	119	105	500	100	232	104	265	68	61	28	26
25	57	104	100	373	95	227	102	207	68	52	24	24
26	46	360	95	283	90	349	117	174	59	48	22	22
27	39	495	90	229	85	415	238	153	65	51	22	21
28	35	354	80	190	75	345	391	142	97	51	22	20
29	45	290	75	170	------	282	317	164	99	46	21	18
30	44	230	70	160	------	247	238	157	655	43	21	18
31	39	------	90	150	------	232	------	142	------	41	26	------
TOTAL	1,199	4,548	5,689	6,590	4,690	10,880	9,192	5,940	3,240	3,735	1,702	663
MEAN	38.7	152	184	213	168	351	306	192	108	120	54.9	22.1
MAX	112	495	614	500	550	1,030	918	479	655	715	218	36
MIN	16	36	70	100	75	74	102	102	59	41	21	17
CFSM	.57	2.23	2.70	3.13	2.47	5.15	4.49	2.82	1.59	1.76	.81	.32
IN.	.65	2.48	3.11	3.60	2.56	5.94	5.02	3.24	1.77	2.04	.93	.36

CAL YR 1972 TOTAL 56,483 MEAN 154 MAX 1,090 MIN 15 CFSM 2.26 IN 30.85
WTR YR 1973 TOTAL 58,068 MEAN 159 MAX 1,030 MIN 16 CFSM 2.33 IN 31.72

PEAK DISCHARGE (BASE, 700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1830	3.65	715				
12-07	0130	3.77	775				
3-17	2330	4.67	1,310				
4-02	1200	4.33	1,100				
6-30	1230	4.39	1,130				

01083000 Nubanusit Brook near Peterborough, N.H.

LOCATION.--Lat 42°53'10", long 71°58'24", Hillsborough County, on left bank 1.2 mi (1.9 km) downstream from Edward MacDowell Reservoir, 1.3 mi (2.1 km) northwest of Peterborough, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--46.9 mi^2 (121.5 km^2).

PERIOD OF RECORD.--October 1920 to September 1931, July 1945 to current year. Monthly discharge only October 1920, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m) from topographic map. Prior to Oct. 1, 1931, at site 550 ft (170 m) downstream at different datum.

AVERAGE DISCHARGE.--39 years, 82.3 ft^3/s (2.331 m^3/s), 23.83 in/yr (605 mm/yr).

EXTREMES.--Current year: Maximum discharge, 576 ft^3/s (16.3 m^3/s) Mar. 20 (gage height, 4.05 ft or 1.234 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Nov. 1.

Period of record: Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) Apr. 11, 1931 (gage height, 5.59 ft or 1.704 m, site and datum then in use), from rating curve extended above 380 ft^3/s (10.8 m^3/s); minimum daily, 0.5 ft^3/s (0.014 m^3/s) Aug. 1, 1926. Maximum discharge since construction of Edward MacDowell Reservoir in 1950, 699 ft^3/s (19.8 m^3/s) Apr. 12, 1960 (gage height, 4.54 ft or 1.384 m).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by mills and Nubanusit Lake, Edward MacDowell Reservoir since 1950 (see p. 69), and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 561: 1921(M). WSP 1051: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	11	183	64	140	87	166	160	142	63	20	18
2	18	62	150	120	145	89	214	130	131	143	24	18
3	16	64	133	130	70	91	331	214	99	225	53	18
4	16	52	115	120	90	104	424	153	40	291	107	18
5	16	51	96	98	175	134	441	118	33	338	125	17
6	17	47	109	84	240	150	498	103	85	348	121	31
7	41	44	193	74	332	146	465	91	102	369	114	31
8	68	46	258	68	418	165	404	84	97	374	104	30
9	79	91	244	66	415	243	340	95	128	353	52	30
10	76	104	244	64	360	272	266	138	85	320	15	30
11	89	100	261	62	300	260	239	169	32	250	15	28
12	64	71	209	61	240	261	227	186	56	169	15	23
13	47	31	154	60	183	347	205	178	83	126	30	15
14	38	78	149	60	140	399	178	127	115	87	42	12
15	40	109	133	59	128	399	155	120	134	85	41	12
16	36	80	105	58	126	345	128	121	104	94	41	12
17	40	64	94	58	105	269	123	121	90	76	40	12
18	40	50	86	60	100	97	122	124	79	64	40	13
19	45	43	82	67	105	317	115	132	70	46	38	13
20	42	78	78	79	110	519	108	143	62	32	17	13
21	38	123	77	105	111	533	101	209	55	35	17	13
22	36	130	76	135	109	501	94	296	51	45	17	13
23	33	109	75	175	110	325	92	323	51	52	17	14
24	30	90	72	225	105	202	83	302	50	51	17	14
25	27	73	69	240	98	199	70	201	67	45	17	14
26	24	95	66	230	94	304	65	147	71	28	17	14
27	27	170	66	210	88	365	90	138	56	23	17	14
28	30	246	64	180	87	313	155	117	56	16	17	14
29	41	258	57	155	------	234	190	139	81	16	17	14
30	39	231	53	150	------	175	184	138	95	16	18	14
31	23	------	57	145	------	163	------	129	------	23	18	------
TOTAL	1,198	2,801	3,808	3,462	4,724	8,008	6,273	4,845	2,400	4,193	1,243	532
MEAN	38.6	93.4	123	112	169	258	209	156	80.0	135	40.1	17.7
MAX	89	258	261	240	418	533	498	323	142	374	125	31
MIN	16	11	53	58	70	87	65	84	32	16	15	12
CFSM	.82	1.99	2.62	2.39	3.60	5.50	4.46	3.33	1.71	2.88	.86	.38
IN.	.95	2.22	3.02	2.75	3.75	6.35	4.98	3.84	1.90	3.33	.99	.42

CAL YR 1972 TOTAL 38,295 MEAN 105 MAX 627 MIN 11 CFSM 2.24 IN 30.37
WTR YR 1973 TOTAL 43,487 MEAN 119 MAX 533 MIN 11 CFSM 2.54 IN 34.49

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085000 Contoocook River near Henniker, N.H.

LOCATION.--Lat 43°09'10", long 71°51'24", Merrimack County, on right bank 1.6 mi (2.6 km) downstream from Sand Brook and 2.5 mi (4.0 km) southwest of Henniker.

DRAINAGE AREA.--368 mi² (953 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 475 ft (145 m) from topographic map. Prior to Dec. 18, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 625 ft³/s (17.70 m³/s), 23.06 in/yr (586 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,860 ft³/s (166 m³/s) Apr. 3 (gage height, 11.11 ft or 3.386 m); minimum daily, 76 ft³/s (2.15 m³/s) Sept. 13, 14, and 17.

Period of record: Maximum discharge, 9,460 ft³/s (268 m³/s) June 26, 1944 (gage height, 13.13 ft or 4.002 m); minimum daily, 19 ft³/s (0.54 m³/s) Oct. 29, 1940, July 17, 1965.

Maximum discharge since at least 1768, 22,200 ft³/s (629 m³/s) Sept. 21, 1938 (gage height, 21.3 ft or 6.49 m, from floodmarks), from rating curve extended above 7,500 ft³/s (212 m³/s) on basis of computations of flow over dams at gage heights 12.72 and 21.3 ft (3.877 and 6.49 m).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by Nubanusit Lake, Edward MacDowell Reservoir (see p. 69) since March 1950, Highland Lake, Lake Franklin Pierce, and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1701: 1944(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	168	1,490	728	1,050	405	1,590	1,140	1,260	3,630	125	129
2	89	156	1,320	1,320	1,000	395	3,580	951	1,100	3,750	268	116
3	115	258	1,140	1,610	1,200	421	5,630	826	900	2,600	922	93
4	112	359	1,070	1,400	2,300	476	4,680	885	740	1,850	785	132
5	85	330	970	1,200	2,000	903	3,740	936	670	1,590	730	160
6	113	306	1,010	1,050	1,700	1,030	3,380	725	670	1,570	542	122
7	113	316	1,710	1,000	1,500	818	3,250	666	600	1,370	418	121
8	266	350	2,110	930	1,400	1,100	2,930	668	530	1,230	363	94
9	358	732	2,020	880	1,200	1,940	2,440	616	480	1,130	312	81
10	298	1,100	1,890	850	1,100	2,240	2,160	910	450	1,040	345	109
11	287	938	1,680	820	1,000	2,050	2,190	1,360	400	842	214	93
12	232	763	1,420	800	920	1,870	2,150	1,300	370	606	178	77
13	273	637	1,360	770	880	2,420	1,840	1,200	350	498	164	76
14	302	564	1,250	750	800	2,830	1,600	1,100	430	462	155	76
15	285	651	1,090	730	770	2,590	1,480	1,000	580	438	216	77
16	215	683	820	730	760	2,380	1,270	1,050	345	422	208	77
17	162	594	925	720	740	3,280	1,280	1,100	460	318	212	76
18	143	535	1,100	720	670	5,560	1,220	1,120	466	276	202	83
19	139	502	920	710	620	4,560	1,180	1,250	433	166	220	97
20	138	723	800	1,210	570	3,140	1,040	1,500	381	178	240	92
21	139	1,320	762	1,680	520	2,590	790	2,040	450	137	223	87
22	135	1,290	708	1,600	500	2,260	696	2,810	442	140	206	88
23	132	1,150	690	1,700	470	2,000	648	2,740	428	238	134	101
24	130	917	650	1,900	450	1,730	692	2,270	413	253	116	106
25	140	818	620	1,700	440	1,560	921	1,830	436	216	112	118
26	155	1,090	590	1,600	430	1,800	751	1,200	373	200	109	115
27	147	2,350	570	1,400	420	2,340	906	1,000	311	182	170	109
28	138	2,290	550	1,300	410	2,390	1,750	1,050	425	170	225	104
29	154	2,070	540	1,200	------	2,140	2,030	1,060	703	158	240	96
30	180	1,730	530	1,150	------	1,790	1,630	1,100	1,820	144	230	105
31	186	------	510	1,100	------	1,580	------	1,200	------	135	190	------
TOTAL	5,461	25,690	32,815	35,258	25,820	62,588	59,444	38,603	17,416	25,939	8,774	3,009
MEAN	176	856	1,059	1,137	922	2,019	1,981	1,245	581	837	283	100
MAX	358	2,350	2,110	1,900	2,300	5,560	5,630	2,810	1,820	3,750	922	160
MIN	85	156	510	710	410	395	648	616	311	135	109	76
CFSM	.48	2.33	2.88	3.09	2.51	5.49	5.38	3.38	1.58	2.27	.77	.27
IN.	.55	2.60	3.32	3.56	2.61	6.33	6.01	3.90	1.76	2.62	.89	.30

CAL YR 1972 TOTAL 303,999 MEAN 831 MAX 4,930 MIN 73 CFSM 2.26 IN 30.73
WTR YR 1973 TOTAL 340,817 MEAN 934 MAX 5,630 MIN 76 CFSM 2.54 IN 34.45

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085500 Contoocook River below Hopkinton Dam, at West Hopkinton, N.H.

LOCATION.--Lat 43°11'31", long 71°44'51", Merrimack County, on right bank 400 ft (100 m) downstream from covered bridge at West Hopkinton, 0.2 mi (0.3 km) downstream from Hopkinton Dam, and 5.9 mi (9.5 km) upstream from Warner River.

DRAINAGE AREA.--427 mi² (1,106 km²).

PERIOD OF RECORD.--August 1903 to April 1907 (no winter records), August 1963 to current year. Published as "at West Hopkinton" 1903-7.

GAGE.--Water-stage recorder. Altitude of gage is 355 ft (108 m) from topographic map. August 1903 to April 1907, nonrecording gage at site 400 ft (100 m) upstream at different datum.

AVERAGE DISCHARGE.--10 years (1963-73), 670 ft³/s (18.97 m³/s), 21.31 in/yr (541 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 4,640 ft³/s (131 m³/s) Apr. 6 (gage height, 7.97 ft or 2.429 m); minimum daily, 60 ft³/s (1.70 m³/s) Sept. 9, 15.

Period of record: Maximum discharge, 5,260 ft³/s (149 m³/s) Apr. 24, 1969 (gage height, 8.66 ft or 2.640 m); minimum daily, 15 ft³/s (0.42 m³/s) July 22, 1965.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by Nubanusit Lake, Edward MacDowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962 (see p. 69), and other reservoirs above station. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River during periods of high flow in March 1968 and April 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	189	1,740	720	1,350	511	1,700	1,550	1,460	2,120	219	210
2	97	175	1,600	975	1,340	474	2,710	1,180	1,230	2,640	306	139
3	102	236	1,380	1,900	2,260	481	3,900	1,050	1,010	2,940	1,090	122
4	133	372	1,190	1,940	3,140	555	2,340	1,010	801	3,070	936	168
5	87	357	1,110	1,660	3,100	675	3,010	1,030	535	2,990	874	149
6	80	345	1,140	1,230	2,500	1,300	4,170	964	611	2,310	670	185
7	149	335	1,610	1,270	2,000	1,050	4,340	752	603	1,980	550	165
8	214	335	2,160	900	1,800	985	4,200	780	567	1,580	457	142
9	377	420	2,200	800	1,600	1,990	4,010	764	526	1,480	403	60
10	304	855	2,150	770	1,500	2,250	3,480	1,080	484	1,530	372	155
11	265	1,040	1,980	720	1,400	2,200	2,690	1,530	471	1,840	382	152
12	304	935	1,480	670	1,300	2,070	2,390	1,750	440	985	236	105
13	175	765	1,480	650	1,200	2,560	2,060	1,500	449	611	233	97
14	282	665	1,440	620	1,100	2,690	1,830	1,300	544	590	203	122
15	278	665	1,260	600	960	2,800	1,620	1,210	625	558	210	60
16	257	785	1,160	590	900	3,140	1,450	1,190	471	485	318	116
17	189	715	1,000	580	820	3,150	1,450	1,200	455	468	252	107
18	139	632	1,100	570	760	4,320	1,380	1,260	525	402	252	130
19	110	587	1,000	560	700	4,540	1,330	1,390	473	327	229	165
20	125	745	950	575	660	4,510	1,150	1,450	400	234	291	75
21	165	1,310	880	1,600	600	3,560	1,020	2,020	422	272	286	122
22	149	1,390	850	2,200	590	2,670	793	2,740	460	225	252	127
23	125	1,310	820	2,520	590	2,320	788	2,520	449	285	240	125
24	122	1,070	780	2,660	565	1,980	760	2,380	431	349	152	175
25	127	888	770	2,580	560	1,770	950	2,360	440	327	122	185
26	178	1,050	775	1,970	535	1,920	890	2,360	420	291	152	168
27	155	2,310	760	2,190	510	2,380	947	2,360	345	262	127	159
28	145	2,660	735	1,890	485	2,610	1,600	2,360	397	265	261	165
29	171	2,310	670	1,740	------	2,110	1,870	2,360	729	244	257	142
30	161	1,750	640	1,450	------	2,000	1,920	1,870	1,590	225	252	110
31	206	------	620	1,350	------	1,750	------	1,390	------	225	248	------
TOTAL	5,437	27,201	37,430	40,450	34,825	67,321	62,788	48,660	18,363	32,110	10,832	4,141
MEAN	175	907	1,207	1,305	1,244	2,172	2,093	1,570	612	1,036	349	138
MAX	377	2,660	2,200	2,660	3,140	4,540	4,340	2,740	1,590	3,070	1,090	210
MIN	66	175	620	560	485	474	760	752	345	225	122	60
MEAN†	177	923	1,202	1,306	1,239	2,178	2,104	1,559	684	955	351	135
CFSM†	.41	2.16	2.81	3.06	2.90	5.10	4.93	3.65	1.60	2.24	.82	.32
IN†	.48	2.41	3.25	3.53	3.02	5.88	5.50	4.21	1.79	2.58	.95	.35

CAL YR 1972 TOTAL 333,345 MEAN 911 MAX 5,000 MIN 51 MEAN† 911 CFSM† 2.13 IN† 29.05
WTR YR 1973 TOTAL 389,558 MEAN 1,067 MAX 4,540 MIN 60 MEAN† 1,066 CFSM† 2.50 IN† 33.95

† Adjusted for change in contents in Hopkinton Lake.
NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085800 West Branch Warner River near Bradford, N.H.

LOCATION.--Lat 43°15'33", long 72°01'35", Merrimack County, on left bank 75 ft (23 m) downstream from small, right-bank tributary, 200 ft (60 m) upstream from highway bridge, and 3.5 mi (5.6 km) west of Bradford.

DRAINAGE AREA.--5.75 mi² (14.89 km²).

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 950 ft (290 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 10.8 ft³/s (0.306 m³/s) 25.51 in/yr (648 mm/yr).

EXTREMES.--Current year: Maximum discharge, 555 ft³/s (15.7 m³/s) June 30 (gage height, 8.30 ft or 2.530 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, 0.29 ft³/s (0.008 m³/s) Sept. 14.

Period of record: Maximum discharge, 555 ft³/s (15.7 m³/s) June 30, 1973 (gage height, 8.30 ft or 2.530 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, about 0.06 ft³/s (0.002 m³/s) about Sept. 20, 1964.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	2.2	17	31	9.6	4.8	56	18	16	66	38	.51
2	.94	3.6	15	28	18	4.8	260	16	12	26	6.0	.48
3	.84	13	13	16	110	5.0	69	15	9.8	16	3.1	.48
4	.78	7.2	12	14	41	7.4	43	16	9.0	31	2.0	.48
5	.76	5.5	11	12	24	13	42	14	13	59	1.6	.48
6	.70	4.8	32	10	20	13	38	12	12	26	1.4	.70
7	9.8	5.0	50	9.0	16	11	41	11	8.8	14	1.3	1.1
8	11	22	22	7.8	14	39	34	10	7.0	9.5	1.3	.62
9	3.9	67	26	7.2	12	43	25	23	5.4	6.8	1.3	.51
10	2.6	23	20	6.6	11	31	23	32	4.3	5.8	1.0	.51
11	2.0	14	17	6.2	9.5	23	22	52	3.7	4.4	1.5	.51
12	1.7	12	16	5.8	9.0	58	18	32	6.4	4.0	4.3	.51
13	1.7	11	17	5.6	8.5	83	16	23	8.0	3.5	2.1	.45
14	1.8	11	13	5.4	8.2	46	16	17	4.9	3.5	1.2	.36
15	2.2	13	10	5.2	8.0	31	24	15	4.4	3.4	2.0	.36
16	2.3	10	12	5.4	7.7	52	47	31	9.3	3.4	10	.45
17	2.0	8.6	10	6.5	7.5	193	61	20	7.1	2.8	4.0	.42
18	1.8	8.3	9.5	14	7.3	101	58	35	5.7	2.7	2.0	1.1
19	1.5	8.0	9.2	32	7.1	40	47	44	4.7	2.5	1.2	1.7
20	1.4	56	8.6	98	7.0	29	32	23	3.9	2.1	1.0	.96
21	1.4	30	8.4	38	7.0	22	24	186	3.5	2.1	.86	.78
22	1.4	16	8.8	20	7.0	19	21	86	3.1	2.3	.82	.86
23	1.5	11	8.5	83	7.6	17	19	35	3.3	1.9	.82	2.4
24	1.5	10	8.4	42	6.9	19	16	24	4.6	1.6	.78	1.5
25	1.4	9.0	8.0	25	6.8	28	14	19	10	1.5	.70	2.1
26	1.5	104	7.8	19	6.5	70	12	16	5.6	1.5	.62	1.3
27	1.5	54	7.6	15	5.7	54	32	14	15	1.8	.58	.91
28	1.5	28	7.4	14	5.1	36	80	15	41	1.4	.58	.82
29	3.1	31	7.3	13	------	29	35	15	45	1.1	.58	.70
30	3.4	19	7.1	11	------	26	22	17	316	1.1	.58	.66
31	2.6	------	8.1	10	------	34	------	32	------	1.1	.58	------
TOTAL	71.46	617.2	427.7	615.7	408.0	1,182.0	1,247	918	602.5	309.8	93.80	24.72
MEAN	2.31	20.6	13.8	19.9	14.6	38.1	41.6	29.6	20.1	9.99	3.03	.82
MAX	11	104	50	98	110	193	260	186	316	66	38	2.4
MIN	.70	2.2	7.1	5.2	5.1	4.8	12	10	3.1	1.1	.58	.36
CFSM	.40	3.58	2.40	3.46	2.54	6.63	7.23	5.15	3.50	1.74	.53	.14
IN.	.46	3.99	2.77	3.98	2.64	7.65	8.07	5.94	3.90	2.00	.61	.16

CAL YR 1972 TOTAL 5,591.79 MEAN 15.3 MAX 127 MIN .51 CFSM 2.66 IN 36.18
WTR YR 1973 TOTAL 6,517.88 MEAN 17.9 MAX 316 MIN .36 CFSM 3.11 IN 42.17

PEAK DISCHARGE (BASE, 110 ft³/s, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1445	7.06	255	3-17	2000	7.78	391
12-6	2245	6.09	127	4-2	0300	7.99	478
1-20	0700	6.35	156	4-28	0100	5.79	110
2-3	0400	6.48	172	5-21	0830	7.59	398
3-12	2215	5.95	113	6-30	1030	8.30	555

01086000 Warner River at Davisville, N.H.

LOCATION.--Lat 43°15'06". long 71°43'54", Merrimack County, on left bank 60 ft (18 m) downstream from bridge on State Highway 127 at Davisville, 2.2 mi (3.5 km) northwest of Contoocook, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--146 mi^2 (378 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (116 m) from topographic map. Prior to Dec. 22, 1939, chain oage at bridge 60 ft (18 m) upstream at same datum.

AVERAGE DISCHARGE.--34 years, 234 ft^3/s (6.627 m^3/s), 21.77 in/yr (553 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,040 fc^3/s (86.1 m^3/s) Mar. 18 (gage height, 8.65 ft or 2.637 m); minimum, 12 ft^3/s (0.34 m^3/s) Oct. 1.

Period of record: Maximum discharge, 4,510 ft^3/s (128 m^3/s) Mar. 27, 1953 (gage height, 9.88 ft or 3.011 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Aug. 17, 18, 1965.

REMARKS.--Records good. Prior to 1948, slight diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	44	543	295	336	155	641	501	470	2,210	33	21
2	14	46	529	432	335	160	1,770	425	400	1,300	104	22
3	14	88	459	400	609	161	2,480	370	328	889	304	28
4	14	108	413	375	918	179	1,980	349	280	649	268	41
5	14	103	353	340	844	243	1,650	324	253	621	198	42
6	14	101	385	280	692	297	1,500	295	244	638	131	41
7	25	98	410	205	592	299	1,400	271	235	510	94	44
8	101	104	460	190	518	383	1,210	244	210	384	75	38
9	101	274	520	190	450	606	1,010	268	183	298	63	33
10	73	340	570	185	365	661	873	479	158	238	56	31
11	56	285	510	180	320	607	829	545	135	195	57	31
12	48	244	480	175	290	591	731	687	118	160	54	26
13	44	213	436	170	280	1,000	632	585	123	133	52	24
14	41	206	404	169	270	1,180	560	483	163	118	47	22
15	39	241	330	169	280	988	540	408	141	109	46	21
16	37	236	250	167	278	890	580	400	129	102	55	21
17	37	203	260	164	240	1,330	632	425	160	93	72	21
18	35	183	250	175	210	2,830	643	396	153	84	60	26
19	32	168	270	247	220	2,210	616	515	135	80	48	32
20	30	280	280	427	226	1,570	560	497	120	93	40	30
21	29	473	260	612	221	1,150	497	1,120	105	75	34	27
22	28	420	250	565	221	900	443	1,650	97	70	30	25
23	28	372	250	668	223	730	404	1,270	104	71	27	33
24	29	295	250	906	213	651	366	981	94	63	25	43
25	28	256	245	785	180	634	331	748	127	54	23	48
26	27	435	240	660	180	735	301	590	129	48	21	44
27	26	1,260	240	570	160	975	345	488	121	44	21	39
28	27	942	230	508	150	910	676	425	215	43	26	37
29	36	770	210	441	------	798	793	438	295	41	36	32
30	46	661	195	391	------	703	621	429	1,080	39	29	26
31	48	------	195	377	------	641	------	434	------	35	21	------
TOTAL	1,135	9,449	10,677	11,418	9,821	25,167	25,614	17,040	6,505	9,487	2,150	949
MEAN	36.6	315	344	368	351	812	854	550	217	306	69.4	31.6
MAX	101	1,260	570	906	918	2,830	2,480	1,650	1,080	2,210	304	48
MIN	14	44	195	164	150	155	301	244	94	35	21	21
CFSM	.25	2.16	2.36	2.52	2.40	5.56	5.85	3.77	1.49	2.10	.48	.22
IN.	.29	2.41	2.72	2.91	2.50	6.41	6.53	4.34	1.66	2.42	.55	.24

CAL YR 1972 TOTAL 110,450.0 MEAN 302 MAX 2,170 MIN 3.0 CFSM 2.07 IN 28.14
WTR YR 1973 TOTAL 129,412.0 MEAN 355 MAX 2,830 MIN 14 CFSM 2.43 IN 32.97

PEAK DISCHARGE (BASE, 1,200 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0600	6.82	1,330				
3-18	0830	8.65	3,040				
4-2	2130	8.30	2,660				
5-21	2030	7.48	1,870				
7-1	0230	8.23	2,590				

01087000 Blackwater River near Webster, N.H.

LOCATION.--Lat 43°17'45", long 71°41'46", Merrimack County, on left bank 0.2 mi (0.3 km) west of Dingit Corner, 2.4 mi (3.9 km) downstream from Blackwater Dam, 2.5 mi (4.0 km) southeast of Webster, and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--129 mi^2 (334 km^2).

PERIOD OF RECORD.--May 1918 to September 1920, February 1927 to current year. Published as "near Contoocook" 1918-20, 1927-35. Records published for both sites October 1934 to September 1935.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m) from topographic map. Prior to Oct. 1, 1935, chain gage at site 5 mi (8 km) downstream at different datum.

AVERAGE DISCHARGE.--48 years, 210 ft^3/s (5.947 m^3/s), 22.11 in/yr (562 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1920 ft^3/s (54.4 m^3/s) Apr. 6 (gage height, 6.71 ft or 2.045 m); minimum, 31 ft^3/s (0.88 m^3/s) Oct. 7.

Period of record: Maximum discharge, 11,000 ft^3/s (312 m^3/s) Mar. 19, 1936 (gage height, 11.78 ft or 3.591 m, from floodmarks), from rating curve extended above 6,700 ft^3/s (190 m^3/s) on basis of slope-area and critical-depth measurements of peak flow; minimum, 3 ft^3/s (0.085 m^3/s) Sept. 17, 1941; minimum daily, 7.6 ft^3/s (0.22 m^3/s) Sept. 29, 1964. Maximum discharge since construction of Blackwater Reservoir in 1941, 2,390 ft^3/s (67.7 m^3/s) Apr. 16, 1951, Apr. 10, 1952 (gage height, 7.18 ft or 2.188 m).

Maximum stage since at least 1733, that of Mar. 19, 1936.

REMARKS.--Records good except those for period of no gage-height record, which are fair. High flow regulated by Blackwater Reservoir since 1941 (see p. 69). Some regulation at low flow prior to 1953 by mill above station.

REVISIONS (WATER YEARS).--WSP 696: Drainage area. WSP 821: 1936(M). WSP 851: 1936. WSP 867: 1936 (flood-report data). WSP 1231: 1919-20, 1927, 1928(M), 1929-32, 1933-34(M), 1936 (calendar-year summaries).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	83	456	216	271	146	509	594	390	120	75	52
2	36	83	387	277	260	143	893	463	358	250	126	52
3	35	109	334	299	396	143	1.270	399	298	600	242	57
4	35	146	281	293	617	147	909	363	258	810	309	57
5	33	155	268	265	736	169	1.150	335	232	1.020	257	54
6	33	141	283	229	725	201	1.840	306	220	1.440	178	54
7	41	130	353	178	563	217	1.750	275	214	1.540	133	54
8	99	133	365	155	438	249	1.290	248	210	1.700	109	50
9	153	210	473	150	376	342	851	256	190	1.640	95	46
10	141	360	525	145	324	444	726	378	170	1.330	86	43
11	106	415	480	145	285	443	664	498	150	520	80	41
12	84	291	345	140	260	469	601	584	150	225	76	39
13	72	217	343	140	243	587	539	616	150	205	72	37
14	66	189	324	140	236	814	489	526	150	190	68	37
15	62	190	274	140	235	864	466	414	160	165	69	37
16	58	196	200	140	237	727	485	365	160	160	78	36
17	56	179	210	135	221	765	537	377	150	148	82	35
18	53	158	209	140	203	1.090	618	378	160	138	82	37
19	51	147	232	160	197	1.270	702	408	160	127	76	43
20	51	205	232	286	204	1.520	685	434	150	118	69	44
21	50	356	214	421	202	1.680	591	611	140	113	65	44
22	49	453	204	522	200	851	498	971	140	110	61	45
23	49	338	209	587	197	524	432	1.010	150	104	58	54
24	48	264	205	642	190	479	396	1.310	150	97	54	71
25	46	206	200	716	178	480	356	1.290	150	91	52	87
26	44	327	197	685	168	540	321	736	150	83	50	85
27	43	760	196	548	157	687	327	465	140	80	49	73
28	42	1.220	196	436	149	824	474	411	150	83	51	63
29	50	791	180	373	------	741	692	411	215	86	57	55
30	62	590	167	322	------	596	768	413	305	84	57	48
31	75	------	167	293	------	525	------	400	------	79	55	------
TOTAL	1.858	9.042	8.709	9.318	8.473	18.717	21.829	16.245	5.770	13.506	2.971	1.530
MEAN	59.9	301	281	301	303	604	728	524	192	436	95.8	51.0
MAX	153	1.220	525	716	736	1.680	1.840	1.310	390	1.700	309	87
MIN	33	83	167	135	149	143	321	248	140	79	49	35
CFSM	.46	2.33	2.18	2.33	2.35	4.68	5.64	4.06	1.49	3.38	.74	.40
IN.	.54	2.61	2.51	2.69	2.44	5.40	6.29	4.68	1.66	3.89	.86	.44

CAL YR 1972 TOTAL 100.628 MEAN 275 MAX 1.620 MIN 33 CFSM 2.13 IN 29.02
WTR YR 1973 TOTAL 117.968 MEAN 323 MAX 1.840 MIN 33 CFSM 2.50 IN 34.02

NOTE.--No gage-height record June 8 to July 15. Discharge in cubic feet per second per square mile and runoff in inches may not represent flow because of regulation.

01088000 Contoocook River at Penacook, N.H.

LOCATION.--Lat 43°17'12", long 71°35'56", Merrimack County, on right bank at Penacook, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--766 mi² (1,984 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 273.09 ft (83.238 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 1,251 ft³/s (35.43 m³/s), 22.18 in/yr (563 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 8,900 ft³/s (252 m³/s) Mar. 18 (gage height, 6.03 ft or 1.838 m); minimum, 152 ft³/s (4.30 m³/s) Sept. 16; minimum daily, 164 ft³/s (4.64 m³/s) Oct. 2.

Period of record: Maximum discharge, 46,800 ft³/s (1,330 m³/s) Mar. 20, 1936 (gage height, 14.26 ft or 4.346 m, from floodmarks); minimum, 18 ft³/s (0.51 m³/s) Sept. 7, 1968; minimum daily, 57 ft³/s (1.61 m³/s) Oct. 12, 1964, Aug. 16, 1965. Maximum discharge since construction of Hopkinton and Everett Dams in 1962, 10,300 ft³/s (292 m³/s) Apr. 25, 1969 (gage height, 6.29 ft or 1.917 m).

Stage and discharge of flood of Mar. 20, 1936, are the greatest since at least 1725.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Nubanusit Lake, Edward MacDowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962, Blackwater Reservoir since 1941 (see p. 69), and other reservoirs above station. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River at times during periods of high flow in March 1968 and April 1969.

REVISIONS (WATER YEARS).--WSP 756: 1933(M), drainage area. WSP 1231: 1929, 1931. WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	355	3,160	1,340	2,150	800	3,250	3,270	2,750	5,390	333	332
2	164	336	2,850	1,840	2,100	820	5,420	2,530	2,470	4,670	409	271
3	180	432	2,490	2,610	3,100	834	6,010	2,140	2,040	4,800	1,450	235
4	176	601	2,140	2,550	3,970	905	7,500	1,970	1,730	4,920	1,630	258
5	219	670	1,920	2,300	4,400	1,180	5,470	1,940	1,330	5,030	1,450	296
6	168	640	1,900	2,000	4,280	1,700	7,820	1,860	1,260	4,770	1,120	323
7	205	610	2,570	1,800	3,500	1,710	8,200	1,500	1,270	4,420	855	297
8	375	620	3,250	1,500	3,000	1,760	7,750	1,430	1,190	3,990	694	288
9	582	979	3,470	1,300	2,700	2,870	6,740	1,440	1,110	3,710	608	236
10	620	1,700	3,530	1,200	2,400	3,670	6,070	1,990	992	3,380	545	200
11	503	1,900	3,220	1,180	2,200	3,690	5,050	2,690	917	2,770	539	260
12	478	1,610	2,510	1,140	2,000	3,560	4,420	3,360	858	1,490	448	222
13	389	1,300	2,450	1,100	1,900	4,250	3,900	3,180	834	1,170	360	214
14	417	1,150	2,380	1,050	1,800	5,080	3,440	2,670	930	1,050	348	187
15	432	1,190	2,090	1,010	1,650	5,050	3,100	2,400	1,040	962	358	210
16	417	1,260	1,500	980	1,620	5,150	2,930	2,230	967	879	444	175
17	355	1,190	1,600	970	1,600	5,500	2,910	2,280	881	814	458	199
18	285	1,060	1,900	960	1,500	8,210	2,970	2,280	967	714	431	219
19	258	967	1,700	950	1,400	8,770	2,970	2,490	942	639	397	258
20	224	1,190	1,600	1,400	1,250	8,280	2,790	2,690	834	524	389	248
21	258	2,090	1,500	2,100	1,110	7,600	2,510	3,600	777	522	405	196
22	269	2,470	1,460	2,700	1,100	5,630	2,070	5,820	800	465	373	241
23	248	2,190	1,410	3,310	1,100	4,330	1,870	5,390	800	463	349	251
24	233	1,860	1,370	3,830	1,050	3,710	1,750	5,080	788	525	290	283
25	229	1,530	1,330	3,900	1,000	3,380	1,780	4,820	870	500	225	339
26	253	1,680	1,320	3,600	960	3,530	1,750	3,920	858	457	248	335
27	263	3,900	1,300	3,330	900	4,370	1,780	2,850	777	415	241	310
28	248	5,000	1,260	2,910	850	4,850	2,770	2,450	930	406	319	291
29	279	4,750	1,200	2,500	------	4,330	3,600	2,510	1,260	391	383	266
30	285	3,600	1,150	2,350	------	3,900	3,760	2,690	3,180	357	371	251
31	330	------	1,100	2,200	------	3,400	------	2,650	------	342	375	------
TOTAL	9,518	48,830	62,630	61,910	56,590	122,819	124,350	88,120	36,352	61,135	16,845	7,691
MEAN	307	1,628	2,020	1,997	2,021	3,962	4,145	2,843	1,212	1,972	543	256
MAX	620	5,000	3,530	3,900	4,400	8,770	8,200	5,820	3,180	5,390	1,630	339
MIN	164	336	1,100	950	850	800	1,750	1,430	777	342	225	175
CFSM	.40	2.13	2.64	2.61	2.64	5.17	5.41	3.71	1.58	2.57	.71	.33
IN.	.46	2.37	3.04	3.01	2.75	5.96	6.04	4.28	1.77	2.97	.82	.37

CAL YR 1972 TOTAL 605,014 MEAN 1,653 MAX 9,190 MIN 164 CFSM 2.16 IN 29.38
WTR YR 1973 TOTAL 696,790 MEAN 1,909 MAX 8,770 MIN 164 CFSM 2.49 IN 33.84

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01089000 Soucook River near Concord, N.H.

LOCATION.--Lat 43°14'22", long 71°27'44", Merrimack County, on left bank 500 ft (150 m) upstream from U. S. Highway 4, 0.9 mi (1.4 km) upstream from Cemetery Brook, and 4.4 mi (7.1 km) northeast of State Capitol at Concord.

DRAINAGE AREA.--76.8 mi^2 (198.9 km^2).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (88 m) from topographic map.

AVERAGE DISCHARGE.--22 years, 109 ft^3/s (3.087 m^3/s), 19.27 in/yr (489 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,330 ft^3/s (37.7 m^3/s) Mar. 18 (gage height, 10.44 ft or 3.182 m); minimum, 12 ft^3/s (0.34 m^3/s) Sept. 17, 18.

Period of record: Maximum discharge, 2,880 ft^3/s (81.6 m^3/s) Apr. 6, 1960 (gage height, 13.34 ft or 4.066 m); minimum, 1.5 ft^3/s (0.042 m^3/s) Aug. 7, 1965.

REMARKS.--Records good except those for winter period, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1331: 1952(M).

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	42	214	166	130	79	214	153	254	788	17	18
2	15	41	190	247	185	80	721	132	190	405	158	17
3	14	101	170	200	515	80	1.130	121	147	228	680	17
4	14	101	150	162	762	92	718	121	125	163	253	16
5	14	79	139	130	567	139	567	115	112	154	131	14
6	14	76	153	100	402	166	564	107	105	158	84	17
7	23	69	350	80	322	160	547	96	99	116	64	23
8	61	65	300	72	268	252	449	87	89	92	52	21
9	46	107	280	66	233	415	371	95	78	77	45	18
10	38	107	250	62	180	399	339	196	68	64	39	16
11	34	87	230	58	160	346	374	198	60	56	35	15
12	31	79	200	55	140	345	306	252	55	48	34	13
13	30	71	165	53	135	560	276	208	53	44	31	13
14	27	75	145	52	130	588	254	162	53	41	28	13
15	28	103	125	50	132	442	240	133	49	38	27	13
16	37	98	115	49	132	410	236	166	47	38	34	13
17	39	85	110	48	121	600	220	186	57	35	32	12
18	33	79	105	47	111	1.200	200	147	52	32	28	18
19	30	74	125	47	110	720	194	170	47	31	27	41
20	28	218	120	150	110	507	174	149	44	29	24	28
21	27	379	110	330	105	399	155	334	40	29	24	16
22	26	218	100	314	107	332	147	457	38	34	23	18
23	33	162	110	359	108	283	139	371	51	31	22	40
24	34	133	110	510	104	271	125	268	47	26	20	41
25	31	115	105	404	96	276	117	208	47	24	18	41
26	29	276	100	312	91	337	110	182	44	22	17	44
27	27	652	100	254	85	425	137	155	41	22	17	38
28	26	376	95	220	79	327	214	139	81	22	22	31
29	31	309	90	180	------	268	225	206	80	21	28	24
30	50	245	85	160	------	238	182	256	435	19	22	20
31	49	------	85	140	------	218	------	245	------	18	19	------
TOTAL	934	4.622	4.726	5.077	5.620	10.954	9.645	5.815	2.688	2.905	2.055	669
MEAN	30.1	154	152	164	201	353	322	188	89.6	93.7	66.3	22.3
MAX	61	652	350	510	762	1.200	1.130	457	435	788	680	44
MIN	14	41	85	47	79	79	110	87	38	18	17	12
CFSM	.39	2.01	1.98	2.14	2.62	4.60	4.19	2.45	1.17	1.22	.86	.29
IN.	.45	2.24	2.29	2.46	2.72	5.31	4.67	2.82	1.30	1.41	1.00	.32

CAL YR 1972 TOTAL 49.146 MEAN 134 MAX 782 MIN 11 CFSM 1.74 IN 23.81
WTR YR 1973 TOTAL 55.710 MEAN 153 MAX 1.200 MIN 12 CFSM 1.99 IN 26.98

PEAK DISCHARGE (BASE, 700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0630	8.85	755	4-3	0330	10.22	1,240
2-4	0800	9.02	806	7-1	0730	9.26	878
3-16	1130	10.44	1,330	8-3	0730	9.42	932

01090800 Piscataquog River below Everett Dam, near East Weare, N.H.

LOCATION.--Lat 43°05'29", long 71°39'36", Hillsborough County, on right bank 500 ft (150 m) downstream from Everett Dam and 1.4 mi (2.3 km) southeast of East Weare.

DRAINAGE AREA.--63.1 mi² (163.4 km²).

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 320 ft (98 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 90.3 ft³/s (2.557 m³/s), 19.43 in/yr (494 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, about 1,300 ft³/s (36.8 m³/s) Mar. 21 (gage height, about 8.4 ft or 2.56 m); minimum daily, 6.3 ft³/s (0.18 m³/s) Sept. 14-17.

Period of record: Maximum discharge, 1,530 ft³/s (43.3 m³/s) May 1, 1969 (gage height, 8.73 ft or 2.661 m); no flow for part of Aug. 27, Nov. 18, 1964, Oct. 22, 1968, caused by unusual regulation; minimum daily discharge, 0.39 ft³/s (0.011 m³/s) Sept. 6, 1968.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by Everett Lake (see p. 69). Diversion from Hopkinton Lake on Contoocook River to Everett Lake during periods of high flow in the spring of 1968 and 1969. Occasional regulation by small reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	78	231	125	90	67	238	271	181	85	18	12
2	8.0	70	202	173	130	67	137	238	136	348	33	10
3	7.6	80	181	172	180	68	336	147	103	497	107	9.7
4	7.2	84	171	163	270	68	503	107	87	472	107	8.9
5	7.0	78	161	148	345	102	647	106	80	452	83	8.3
6	7.1	72	157	125	350	133	975	108	80	437	63	8.5
7	17	67	269	101	300	140	1,030	105	75	409	49	9.6
8	89	65	267	82	220	148	969	96	65	333	39	10
9	86	111	246	84	180	262	802	79	58	137	33	9.0
10	56	140	236	80	165	281	400	127	50	85	31	8.2
11	38	121	217	80	135	278	369	137	40	77	28	7.4
12	30	105	185	78	120	307	321	176	30	72	26	7.3
13	28	88	169	71	120	360	280	171	50	62	23	6.7
14	35	85	163	69	105	595	242	152	74	55	20	6.3
15	42	107	149	70	105	540	212	123	67	50	20	6.3
16	43	106	140	90	115	400	200	102	60	48	28	6.3
17	89	93	132	87	120	330	194	108	68	44	32	6.3
18	91	84	120	74	110	95	188	94	64	41	30	8.8
19	97	79	119	88	110	96	179	146	54	39	26	15
20	101	142	114	212	120	405	163	156	48	36	23	16
21	98	261	107	258	95	1,020	148	263	44	38	20	15
22	82	190	106	234	92	1,150	136	333	40	43	18	14
23	69	167	104	274	89	652	128	391	37	38	17	15
24	62	142	100	342	86	311	117	366	35	33	15	15
25	81	115	98	308	83	254	108	334	49	29	14	15
26	72	198	95	258	80	281	103	284	51	26	14	14
27	62	409	95	223	77	306	143	171	49	26	14	14
28	68	435	94	205	70	312	222	138	89	26	15	13
29	66	363	88	174	------	309	233	161	98	25	15	12
30	60	250	86	168	------	340	262	180	122	22	13	11
31	56	------	87	130	------	291	------	190	------	20	12	------
TOTAL	1,663.0	4,385	4,689	4,746	4,062	9,968	9,985	5,560	2,084	4,105	986	318.6
MEAN	53.6	146	151	153	145	322	333	179	69.5	132	31.8	10.6
MAX	101	435	269	342	350	1,150	1,030	391	181	497	107	16
MIN	7.0	65	86	69	70	67	103	79	30	20	12	6.3
MEAN †	54.7	149	149	153	137	327	337	174	77.3	122	31.6	10.4
CFSM †	.87	2.36	2.36	2.42	2.17	5.18	5.34	2.76	1.23	1.93	.50	.16
IN†	1.00	2.64	2.73	2.79	2.34	5.98	5.96	3.18	1.37	2.24	.58	.18

CAL YR 1972 TOTAL 44,952.3 MEAN 123 MAX 899 MIN 7.0 MEAN† 123 CFSM† 1.95 IN† 26.59
WTR YR 1973 TOTAL 52,551.6 MEAN 144 MAX 1,150 MIN 6.3 MEAN† 144 CFSM† 2.28 IN† 30.98

† Adjusted for change in contents in Everett Lake.

NOTE.--No gage-height record Jan. 31 to Feb. 27, Mar. 13-21, June 11-18.

01091000 South Branch Piscataquog River near Goffstown, N.H.

LOCATION.--Lat 43°00'49", long 71°38'31", Hillsborough County, on right bank 20 ft (6 m) upstream fom highway bridge, 1.4 mi (2.3 km) upstream from mouth, and 2.2 mi (3.5 km) west of Goffstown.

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (94 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 164 ft³/s (4.644 m³/s), 21.41 in/yr (544 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,760 ft³/s (78.2 m³/s) Apr. 2 (gage height, 8.26 ft or 2.518 m); minimum, 6.9 ft³/s (0.20 m³/s) Sept. 10.

Period of record: Maximum discharge, 4,100 ft³/s (116 m³/s) June 25, 1944 (gage height, 9.47 ft or 2.886 m); maximum gage height, 14.33 ft (4.368 m) Feb. 11, 1970 (ice jam); minimum discharge, 2.4 ft³/s (0.068 m³/s) Aug. 20-22, 1966.

REMARKS.--Records good except those for winter period, which are fair. Prior to 1954, some regulation at low flow by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	35	287	190	270	115	374	285	196	1,430	25	16
2	14	37	273	240	250	120	2,020	244	166	558	54	51
3	14	65	255	300	350	120	1,760	215	139	331	205	50
4	13	70	228	250	500	130	1,020	208	118	227	158	32
5	12	65	205	220	700	170	914	190	114	270	107	24
6	12	66	276	190	550	220	897	176	125	287	72	26
7	64	67	687	160	450	230	846	164	127	194	54	26
8	169	70	600	140	370	240	703	151	164	146	45	22
9	99	246	500	130	330	310	586	180	131	123	39	18
10	64	235	450	125	280	400	576	311	106	92	35	16
11	46	157	400	120	240	460	700	336	91	91	31	17
12	38	125	340	115	220	536	547	346	83	81	29	15
13	37	106	300	110	210	961	460	266	131	69	27	13
14	34	106	250	105	200	867	400	210	241	62	25	12
15	33	142	220	105	210	653	359	183	161	56	26	13
16	31	134	200	100	200	666	328	254	131	53	35	14
17	30	125	190	100	180	1,350	302	270	139	49	43	14
18	29	98	190	100	160	2,070	280	257	121	46	35	18
19	30	98	200	130	155	1,030	260	386	105	43	30	33
20	30	353	210	200	165	743	235	298	95	41	26	29
21	28	480	195	400	165	575	210	896	84	61	24	22
22	34	272	190	450	165	480	199	884	76	88	22	20
23	29	203	185	520	160	415	187	545	74	66	20	21
24	25	158	185	600	155	395	170	403	72	51	19	22
25	24	136	180	500	150	407	159	315	87	42	17	23
26	23	666	168	450	140	579	154	269	93	36	16	23
27	22	975	168	400	130	732	336	237	89	25	19	20
28	27	537	170	370	115	540	684	217	170	26	19	18
29	35	427	160	320	------	447	528	254	154	28	17	17
30	40	334	150	290	------	343	364	249	895	29	16	15
31	38	------	150	270	------	370	------	213	------	27	14	------
TOTAL	1,139	6,588	8,143	7,700	7,170	16,764	16,550	9,408	4,485	4,728	1,304	660
MEAN	36.7	220	263	248	256	540	552	303	150	153	42.1	22.0
MAX	169	975	687	600	700	2,070	2,020	896	895	1,430	205	51
MIN	12	35	150	100	115	115	154	151	72	25	14	12
CFSM	.35	2.12	2.53	2.38	2.46	5.19	5.31	2.91	1.44	1.47	.40	.21
IN.	.41	2.36	2.91	2.75	2.56	5.99	5.92	3.37	1.60	1.69	.47	.24

CAL YR 1972 TOTAL 80,524.7 MEAN 220 MAX 1,340 MIN 9.7 CFSM 2.12 IN 28.80
WTR YR 1973 TOTAL 84,619.0 MEAN 232 MAX 2,070 MIN 12 CFSM 2.23 IN 30.27

PEAK DISCHARGE (BASE, 1,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	2200	6.52	1,290	4-2	1700	8.26	2,760
3-13	1930	6.15	1,050	5-21	1700	6.47	1,260
3-18	0300	8.16	2,660	6-30	2230	7.44	2,000

01091500 Piscataquog River near Goffstown, N.H.

LOCATION.--Lat 43°00'58", long 71°33'03", Hillsborough County, on left bank 300 ft (90 m) upstream from highway bridge, 0.2 mi (0.3 km) upstream from Harry Brook, 0.4 mi (0.6 km) southwest of Grasmere, 0.9 mi (1.4 km) downstream from Glen Lake, and 2.5 mi (4.0 km) east of Goffstown.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 185 ft (56 m) from topographic map. Prior to Dec. 22, 1939, staff gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 303 ft³/s (8.581 m³/s), 20.37 in/yr (517 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 3,790 ft³/s (107 m³/s) Apr. 2 (gage height, 8.67 ft or 2.643 m); minimum daily, 21 ft³/s (0.595 m³/s) Oct. 4-6.

Period of record: Maximum discharge, 6,840 ft³/s (194 m³/s) Apr. 5, 1960 (gage height, 10.85 ft or 3.307 m); minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 7, 1962.

Maximum discharge since at least 1733, 21,900 ft³/s (620 m³/s) Sept. 21, 1938 (gage height, 17.52 ft or 5.340 m, from floodmarks), by computation of flow over dam. Flood of Mar. 19, 1936, reached a discharge of 19,900 ft³/s (564 m³/s) by computation of flow over dam.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Everett Lake 10 mi (16 km) upstream since 1962 (see p. 69) and occasionally by Glen Lake since 1966. Prior to October 1966, flow regulated by powerplant at outlet of Glen Lake. Diversion from Hopkinton Lake on Contoocook River to Everett Lake during periods of high flow in the spring of 1968 and 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	210	666	380	420	225	743	680	463	1,840	63	41
2	24	205	606	600	500	249	2,850	621	412	1,300	73	44
3	22	205	540	600	950	265	2,620	503	342	944	363	71
4	21	200	519	520	1,400	311	2,050	424	295	832	396	68
5	21	195	468	450	1,250	460	1,590	390	313	855	279	56
6	21	190	501	400	1,010	560	2,130	368	347	958	189	40
7	85	185	880	370	834	550	2,170	336	343	723	135	37
8	290	180	890	320	670	706	1,950	320	252	620	125	36
9	225	170	790	290	570	1,120	1,550	338	107	377	109	34
10	160	373	760	260	500	1,110	1,360	541	139	269	97	30
11	170	415	550	240	450	975	1,330	601	151	221	98	29
12	220	395	515	220	420	1,020	1,120	653	142	202	78	26
13	215	386	520	215	380	1,590	931	573	209	172	70	25
14	205	158	520	210	350	1,580	835	484	362	156	60	24
15	190	62	450	205	370	1,550	717	460	291	137	59	24
16	180	276	395	200	410	1,320	662	480	249	124	64	25
17	170	270	380	200	380	2,080	622	440	250	113	76	26
18	160	227	370	200	350	2,880	572	462	213	111	80	30
19	150	210	360	300	330	1,470	556	517	195	108	77	46
20	140	490	360	500	320	1,150	516	580	178	102	70	54
21	135	869	340	650	330	1,510	468	1,260	162	106	58	45
22	125	619	330	700	320	1,790	437	1,470	148	156	53	41
23	115	436	360	800	340	1,490	412	1,050	139	139	49	42
24	170	396	360	900	310	991	365	933	133	118	45	43
25	160	324	330	850	290	822	346	774	148	102	42	44
26	95	927	370	730	270	971	343	697	156	87	40	44
27	95	1,700	320	650	250	1,250	558	562	161	79	39	41
28	95	1,200	300	570	240	1,040	1,090	471	299	72	36	38
29	95	1,010	275	500	------	917	950	508	346	68	35	34
30	95	749	260	450	------	850	752	539	1,190	66	40	31
31	155	------	270	430	------	739	------	497	------	65	46	------
TOTAL	4,029	13,242	14,555	13,910	14,214	33,542	32,644	18,632	8,087	10,803	3,030	1,169
MEAN	130	441	470	449	508	1,082	1,088	601	270	348	97.7	39.0
MAX	290	1,700	890	900	1,400	2,880	2,850	1,470	1,190	1,840	394	71
MIN	21	62	260	200	240	225	343	320	107	65	35	24
MEAN†	131	444	467	448	505	1,088	1,092	596	277	338	97.5	38.7
CFSM†	.65	2.20	2.31	2.22	2.50	5.39	5.41	2.95	1.37	1.67	.48	.19
IN.†	.75	2.45	2.67	2.56	2.60	6.21	6.03	3.40	1.53	1.93	.56	.21

CAL YR 1972 TOTAL 148,313 MEAN 405 MAX 2,550 MIN 21 MEAN† 406 CFSM† 2.01 IN† 27.34
WTR YR 1973 TOTAL 167,957 MEAN 460 MAX 2,880 MIN 21 MEAN† 460 CFSM† 2.28 IN† 30.91

† Adjusted for change in contents in Everett Lake.

01092000 Merrimack River near Goffs Falls, below Manchester, N.H.

LOCATION.--Lat 42°56'54", long 71°27'52", Hillsborough County, on right bank 600 ft (200 m) upstream from bridge on Interstate Highway 193, 0.8 mi (1.3 km) downstream from Bowman Brook, 1.3 mi (2.1 km) north of Goffs Falls, and 2.3 mi (3.7 km) downstream from Piscataquog River.

DRAINAGE AREA.--3,092 mi² (8,008 km²).

PERIOD OF RECORD.--October 1936 to current year. October 1936 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.27 ft (33.305 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 5,196 ft³/s (147.2 m³/s), 22.82 in/yr (580 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29,500 ft³/s (835 m³/s) Apr. 3 (gage height, 10.55 ft or 3.216 m); minimum daily, 621 ft³/s (17.6 m³/s) Sept. 15.

Period of record: Maximum discharge, 102,500 ft³/s (2,900 m³/s) Sept. 23, 1938 (gage height, 25.87 ft or 7.885 m), from rating curve extended above 48,000 ft³/s (1,360 m³/s) on basis of computations of flow over dam at gage heights 25.87 ft (7.885 m) and 35.19 ft (10.726 m); minimum daily, 98 ft³/s (2.78 m³/s) Oct. 11, 1964.

Maximum discharge since at least 1722, 150,000 ft³/s (4,250 m³/s) Mar. 20, 1936 (gage height, 35.19 ft or 10.726 m, from floodmarks), from rating curve extended above 48,000 ft³/s (1,360 m³/s) by method explained above.

REMARKS.--Records excellent. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. See page 69 for description and monthend contents of many of these reservoirs.

REVISIONS (WATER YEARS).--WSP 1231: 1937. WSP 1271: 1937(M, m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	3,080	9,740	5,330	7,480	4,730	11,000	12,500	11,400	27,500	1,870	1,150
2	1,310	2,460	8,400	7,400	7,140	4,870	17,500	10,200	10,600	25,800	2,850	1,430
3	1,400	2,880	8,110	9,000	10,800	4,840	28,600	8,610	9,740	24,000	6,500	1,830
4	1,500	3,770	7,520	9,050	18,600	5,130	24,600	7,950	8,760	22,800	9,340	1,130
5	1,600	4,310	6,710	8,640	21,700	5,450	22,200	8,610	8,010	22,500	6,860	1,790
6	1,440	3,730	6,280	7,290	18,400	4,630	22,700	8,620	7,830	23,300	5,490	1,550
7	2,100	3,540	8,750	6,600	14,600	7,130	23,100	7,230	7,440	22,800	4,250	1,150
8	3,110	3,320	12,300	6,000	12,100	7,140	21,800	6,220	6,310	21,800	3,850	1,300
9	3,830	3,440	11,700	5,500	11,200	9,020	19,500	5,240	5,480	20,900	3,620	1,860
10	3,560	6,170	11,000	5,300	9,970	11,700	17,500	7,800	4,730	20,000	3,450	1,450
11	4,000	7,540	11,300	5,110	9,070	12,700	16,400	10,500	4,300	18,400	2,990	1,670
12	2,710	6,450	9,530	5,200	8,250	12,300	14,900	12,500	3,610	16,400	3,000	1,500
13	2,800	5,170	8,390	5,050	7,520	14,300	13,300	13,100	3,800	15,800	2,850	1,300
14	2,090	4,810	8,250	4,820	7,320	18,700	11,700	11,500	4,520	9,900	3,030	1,480
15	1,920	4,360	7,470	4,790	7,340	18,700	11,000	9,270	5,340	7,150	2,930	621
16	2,260	4,710	6,800	4,760	7,350	16,600	10,500	8,120	5,460	6,890	1,650	1,040
17	2,450	4,080	6,240	4,790	6,460	17,200	10,700	9,310	5,710	6,700	1,620	1,500
18	1,840	4,040	6,110	4,730	6,180	21,800	11,600	9,740	6,500	6,020	1,690	1,920
19	2,500	3,660	6,900	5,060	6,500	21,900	12,400	9,460	6,930	5,350	2,010	1,400
20	1,930	4,400	6,910	7,100	6,300	24,400	12,900	10,000	5,620	4,740	1,740	1,360
21	1,640	7,550	6,490	9,710	6,190	21,900	12,700	12,400	4,640	3,910	1,680	1,560
22	2,140	8,360	6,410	11,400	6,100	17,900	11,000	18,900	3,700	2,560	1,210	1,450
23	951	7,280	6,480	12,200	5,830	14,500	10,200	22,300	3,630	3,020	1,360	1,800
24	1,880	6,030	6,460	15,700	5,590	12,300	11,800	19,600	3,910	2,580	917	2,070
25	1,880	5,150	6,210	17,300	5,520	11,300	11,300	17,100	4,150	2,550	1,310	2,790
26	1,760	6,080	6,030	14,800	5,560	11,500	9,240	15,000	3,560	2,350	1,440	1,980
27	1,380	14,400	5,970	12,700	5,510	14,000	8,560	12,100	3,740	1,940	1,790	1,860
28	1,740	17,100	5,460	11,600	5,000	15,400	10,200	10,800	4,190	1,760	1,400	1,480
29	1,670	14,700	5,710	10,000	------	14,600	12,900	10,600	5,630	1,970	1,620	1,620
30	1,910	11,700	5,230	9,520	------	12,700	14,000	11,800	12,300	2,330	1,910	1,730
31	3,090	------	4,480	7,870	------	11,500	------	12,100	------	1,840	1,020	------
TOTAL	64,291	185,250	234,880	254,870	249,390	402,540	449,900	349,580	181,540	355,560	87,247	46,751
MEAN	2,074	6,175	7,577	8,222	8,906	12,990	15,000	11,280	6,051	11,470	2,814	1,558
MAX	3,830	17,100	12,300	17,300	21,700	24,400	28,600	22,300	12,300	27,500	9,340	2,790
MIN	951	2,880	4,480	4,730	5,000	4,730	8,560	5,240	3,560	1,760	917	621
CFSM	.67	2.00	2.45	2.66	2.88	4.20	4.85	3.65	1.96	3.71	.91	.50
IN.	.77	2.23	2.83	3.07	3.00	4.84	5.41	4.21	2.18	4.28	1.05	.56

CAL YR 1972 TOTAL 2,294,234 MEAN 6,268 MAX 28,600 MIN 440 CFSM 2.03 IN 27.60
WTR YR 1973 TOTAL 2,861,789 MEAN 7,841 MAX 28,600 MIN 621 CFSM 2.54 IN 34.43

PEAK DISCHARGE (BASE, 22,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-5	0645	9.02	22,100				
3-20	1045	10.39	28,700				
4-3	1200	10.55	29,500				
5-23	0545	9.11	22,600				
7-1	1415	10.45	29,000				

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01093800 Stony Brook tributary near Temple, N.H.

LOCATION.--Lat 42°51'36", long 71°50'00", Hillsborough County, on left bank 150 ft (45 m) downstream from highway bridge, 2.9 mi (4.7 km) north of Temple, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--3.60 mi² (9.32 km²).

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 6.60 ft³/s (0.187 m³/s), 24.90 in/yr (632 mm/yr).

EXTREMES.--Current year: Maximum discharge, 195 ft³/s (5.52 m³/s) Mar. 17 (gage height, 6.35 ft or 1.935 m); minimum, 0.31 ft³/s (0.009 m³/s) Sept. 30.

Period of record: Maximum discharge, 220 ft³/s (6.23 m³/s) Apr. 23, 1969 (gage height, 6.53 ft or 1.990 m), from rating curve extended above 90 ft³/s (2.55 m³/s); maximum gage height, 7.81 ft (2.380 m) Feb. 3, 1970 (backwater from ice); minimum discharge, 0.02 ft³/s (0.001 m³/s) Aug. 21, 1966.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.5	18	25	8.5	4.0	19	11	7.1	18	.58	.35
2	.63	2.1	15	20	20	4.0	110	9.6	6.0	7.1	3.8	.45
3	.55	4.6	14	17	35	4.2	48	8.9	5.4	4.2	5.7	2.0
4	.55	2.9	14	14	25	8.3	34	9.6	5.2	3.4	5.7	1.1
5	.45	2.3	14	12	16	12	33	12	5.0	6.2	1.8	.64
6	.45	2.5	48	11	14	10	31	8.6	4.6	4.6	1.3	.70
7	8.3	2.8	54	9.5	13	8.0	33	7.1	4.4	2.8	1.0	.64
8	4.8	6.5	34	9.0	12	40	24	6.8	4.4	2.0	1.0	.56
9	1.8	25	25	8.5	11	30	22	13	3.8	1.6	.82	.47
10	1.1	10	19	8.0	9.5	20	27	15	3.5	1.4	.78	.41
11	1.0	6.0	14	7.4	9.0	14	24	18	2.8	1.7	.70	.44
12	1.0	5.0	12	6.8	8.5	36	19	15	2.8	1.5	.68	.40
13	1.2	4.2	10	6.4	8.0	38	16	11	5.8	1.0	.65	.37
14	.89	4.2	9.0	6.1	7.5	25	14	8.0	6.8	.94	.63	.40
15	.96	5.2	8.0	5.9	7.2	22	12	8.3	3.8	.94	.66	.50
16	.96	4.2	7.2	5.7	6.8	30	11	15	3.8	1.1	.80	.58
17	1.0	3.6	6.6	5.5	6.5	83	11	11	4.2	.88	1.5	.50
18	.96	3.7	6.2	5.3	6.2	54	11	18	3.5	.77	1.3	1.4
19	.89	3.5	6.0	5.2	5.9	30	11	16	3.2	.67	1.1	1.3
20	.83	28	6.2	25	5.6	24	10	11	2.6	.62	.80	.77
21	.83	16	6.0	18	5.3	19	9.6	50	2.3	3.6	.66	.59
22	.78	9.3	5.7	15	5.1	18	8.6	27	2.2	2.2	.54	.54
23	.73	7.5	5.5	20	4.9	17	8.0	16	2.3	1.4	.46	.77
24	.73	5.4	5.4	17	4.7	17	7.1	13	2.8	1.1	.42	.62
25	.73	4.6	5.3	14	4.5	16	6.2	12	3.4	.88	.38	.67
26	.73	65	5.1	12	4.3	26	8.6	11	2.5	.82	.39	.59
27	.73	39	4.9	11	4.2	23	33	10	3.8	1.0	.42	.50
28	.68	25	4.7	10	4.1	18	42	10	6.2	.82	.45	.40
29	2.1	24	4.5	10	------	16	22	12	8.0	.67	.40	.37
30	2.2	19	4.4	9.5	------	15	14	9.2	71	.62	.35	.34
31	1.7	------	4.2	9.0	------	15	------	8.3	------	.58	.32	------
TOTAL	41.15	342.6	395.9	358.8	272.3	696.5	684.1	411.4	193.2	75.11	36.09	19.35
MEAN	1.33	11.4	12.8	11.6	9.73	22.5	22.8	13.3	6.44	2.42	1.16	.65
MAX	8.3	65	54	25	35	83	110	50	71	18	5.7	2.0
MIN	.45	1.5	4.2	5.2	4.1	4.0	6.2	6.8	2.2	.58	.32	.34
CFSM	.37	3.17	3.56	3.22	2.70	6.25	6.33	3.69	1.79	.67	.32	.18
IN.	.43	3.54	4.09	3.71	2.81	7.20	7.07	4.25	2.00	.78	.37	.20

CAL YR 1972 TOTAL 3,345.84 MEAN 9.14 MAX 65 MIN .20 CFSM 2.54 IN 34.57
WTR YR 1973 TOTAL 3,526.50 MEAN 9.66 MAX 110 MIN .32 CFSM 2.68 IN 36.44

PEAK DISCHARGE (BASE, 110 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1315	5.95	139				
12-06	2000	5.93	136				
3-17	1845	6.35	195				
4-02	0930	6.18	171				
6-30	1115	5.98	142				

NOTE.--No gage-height record Aug. 11 to Sept. 13.

01094000 Souhegan River at Merrimack, N.H.

LOCATION.--Lat 42°51'27", long 71°30'24", Hillsborough County, on left bank at head of Wildcat Falls at Merrimack, 0.4 mi (0.6 km) upstream from bridge on Everett Turnpike, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--171 mi^2 (443 km^2).

PERIOD OF RECORD.--July 1909 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.58 ft (48.945 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 12, 1911, nonrecording gage at site 300 ft (90 m) downstream at datum 0.38 ft (0.116 m) lower. Apr. 12, 1911, to Oct. 14, 1913, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--64 years, 283 ft^3/s (8.01 m^3/s), 22.47 in/yr (571 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,970 ft^3/s (84.1 m^3/s) Apr. 3 (gage height, 7.23 ft or 2.204 m); minimum, 28 ft^3/s (0.79 m^3/s) Oct. 1, 6, 7.

Period of record: Maximum discharge, 16,900 ft^3/s (479 m^3/s) Mar. 19, 1936 (gage height, 16.2 ft or 4.94 m), from rating curve extended above 7,300 ft^3/s (207 m^3/s) on basis of velocity-area studies and computation of flow over dam at gage height 12.78 ft (3.895 m); minimum, 3.8 ft^3/s (0.11 m^3/s) Aug. 17, Sept. 8, Oct. 1, 1965.

Stage and discharge of the flood of March 19, 1936, are the greatest since 1830.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at times caused by mill above station. Diversion to Pennichuck Brook basin for municipal supply of Nashua during periods of low flow from August 1965 to October 1966, July 1969 to November 1971 and October 1972. High flow slightly affected by retarding reservoirs since 1963. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 431: 1909-14. WSP 726: Drainage area. WSP 781: 1924(M). WSP 1231: 1914-15(M), 1917(M), 1919-23(M), 1927-28(M), 1929, 1930-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	76	675	500	320	210	549	681	380	1,320	69	47
2	37	75	578	1,000	350	224	1,790	567	328	879	91	50
3	35	105	482	850	1,150	237	2,580	484	287	636	338	61
4	36	141	400	644	1,830	291	1,630	464	259	478	584	63
5	36	129	370	522	1,400	550	1,420	440	233	424	446	59
6	34	144	405	365	1,060	603	1,450	404	236	400	277	56
7	50	141	1,100	285	800	527	1,420	371	231	317	194	61
8	296	141	1,050	245	700	757	1,170	329	235	249	154	69
9	263	389	930	210	600	1,410	1,000	334	251	206	134	58
10	180	555	950	200	450	1,220	1,050	610	231	172	124	53
11	130	401	800	180	380	1,020	1,490	630	207	180	105	56
12	111	302	650	170	320	981	1,100	728	166	202	92	47
13	105	251	560	165	310	1,530	909	647	188	159	90	43
14	94	231	500	160	320	1,470	779	530	306	139	83	40
15	84	272	430	150	330	1,200	678	443	361	127	79	41
16	84	261	380	180	320	1,180	607	476	285	120	89	39
17	80	227	435	210	250	1,550	548	566	251	113	100	33
18	75	205	340	240	220	2,720	508	511	251	104	95	48
19	71	196	320	381	250	1,910	472	703	213	92	82	51
20	70	421	315	904	287	1,360	428	608	180	85	77	73
21	64	945	310	1,100	283	1,120	393	1,020	161	115	73	67
22	60	649	305	900	283	972	377	1,380	145	226	63	58
23	56	473	305	950	294	841	364	1,010	134	182	60	54
24	64	365	302	1,390	260	742	328	810	137	140	57	53
25	56	283	294	1,080	235	678	309	678	140	119	53	57
26	57	583	291	884	215	771	302	575	151	95	52	50
27	59	1,870	291	724	200	1,030	522	510	141	92	50	47
28	51	1,200	279	623	195	850	1,080	450	235	88	58	45
29	56	951	245	446	------	714	1,110	468	266	79	53	45
30	76	774	200	350	------	628	840	522	558	77	49	43
31	81	------	210	330	------	570	------	435	------	73	46	------
TOTAL	2,581	12,756	14,702	16,338	13,622	29,866	27,302	18,384	7,147	7,688	3,917	1,577
MEAN	83.3	425	474	527	487	963	910	593	238	248	126	52.6
MAX	296	1,870	1,100	1,390	1,830	2,720	2,580	1,380	558	1,320	584	73
MIN	29	75	200	150	195	210	302	329	134	73	46	33
MEAN†	83.7	425	474	527	487	963	910	593	238	248	126	52.6
CFSM†	.49	2.49	2.77	3.08	2.84	5.63	5.32	3.47	1.39	1.45	.74	.31
IN†	.56	2.77	3.20	3.55	2.96	6.50	5.94	4.00	1.55	1.67	.85	.34

CAL YR 1972 TOTAL 142,177 MEAN 388 MAX 1,940 MIN 29 MEAN† 388 CFSM† 2.27 IN† 30.93
WTR YR 1973 TOTAL 155,880 MEAN 427 MAX 2,720 MIN 29 MEAN† 427 CFSM† 2.50 IN† 33.91

PEAK DISCHARGE (BASE, 2,250 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1530	7.21	2,950				
4-3	0030	7.23	2,970				

† Adjusted for diversion to Pennichuck Brook basin for municipal supply of Nashua. Record of diversion furnished by Pennichuck Water Works.

01094400 North Nashua River at Fitchburg, Mass.

LOCATION.--Lat 42°34'34", long 71°47'19", Worcester County, on right bank 400 ft (100 m) upstream from Fifth Street Bridge at Fitchburg, and 1.8 mi (2.9 km) upstream from Baker Brook.

DRAINAGE AREA.--63.6 mi^2 (164.7 km^2).

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 1,170 ft^3/s (33.1 m^3/s) Mar. 17 (gage height, 4.96 ft or 1.512 m); minimum, 25 ft^3/s (0.71 m^3/s) Oct. 4; minimum daily, 35 ft^3/s (0.99 m^3/s) Oct. 1, 2.

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Diversions above station for municipal use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	44	217	542	137	83	207	219	125	518	46	64
2	35	55	188	548	229	87	851	187	113	254	96	50
3	38	73	175	364	1,020	91	536	177	100	158	113	44
4	38	59	172	258	693	216	380	185	94	118	254	43
5	38	58	167	232	426	262	435	170	93	120	155	42
6	39	65	271	181	311	239	430	148	93	107	98	49
7	125	58	836	136	257	194	399	132	93	84	96	70
8	116	100	411	118	212	592	326	125	89	71	74	53
9	60	329	392	109	192	631	270	148	96	57	56	41
10	49	187	355	111	147	442	484	202	100	55	56	44
11	44	144	294	105	139	336	470	288	79	50	57	46
12	48	108	258	100	120	362	322	261	80	50	51	46
13	49	88	246	93	113	454	249	221	149	45	45	46
14	44	108	211	89	113	387	209	175	161	45	43	46
15	48	147	188	89	119	323	183	155	98	45	57	50
16	45	129	191	89	125	312	168	221	79	43	71	50
17	44	107	169	96	106	702	155	201	77	42	60	46
18	43	94	185	109	95	843	147	242	73	41	55	76
19	40	86	152	163	97	514	141	265	67	41	50	67
20	41	357	133	459	97	361	130	221	62	41	49	53
21	39	325	125	346	98	286	117	650	61	55	47	51
22	39	208	158	239	101	243	120	421	59	53	47	47
23	40	168	191	674	105	212	117	310	60	48	51	46
24	40	134	163	536	96	191	111	242	56	48	59	43
25	41	116	155	364	91	171	105	204	52	46	51	43
26	41	552	146	273	89	232	164	188	52	43	51	43
27	40	562	138	228	84	268	546	169	74	82	53	45
28	42	341	133	214	81	211	626	178	98	65	56	44
29	53	285	118	194	------	184	385	269	116	50	53	43
30	46	215	113	189	------	165	276	204	572	47	46	43
31	44	------	123	174	------	164	------	178	------	44	71	------
TOTAL	1,484	5,302	6,774	7,422	5,493	9,758	9,059	6,956	3,121	2,566	2,167	1,474
MEAN	47.9	177	219	239	196	315	302	224	104	82.8	69.9	49.1
MAX	125	562	836	674	1,020	843	851	650	572	518	254	76
MIN	35	44	113	89	81	83	105	125	52	41	43	41

WTR YR 1973 TOTAL 61,576 MEAN 169 MAX 1,020 MIN 35

PEAK DISCHARGE (BASE, 700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1630	4.59	944	3-17	2045	4.96	1,170
12-7	0100	4.85	1,100	4-2	1100	4.69	1,000
1-1	2000	4.27	752	4-28	0300	4.24	734
1-23	1330	4.42	842	5-21	0815	4.38	818
2-3	1345	4.94	1,150	6-30	1600	4.55	920
3-8	1545	4.54	914				

01094500 North Nashua River near Leominster, Mass.

LOCATION.--Lat 42°30'06", long 71°43'23", Worcester County, on right bank 1.3 mi (2.1 km) upstream from Wekepeke Brook, 2.5 mi (4.0 km) southeast of Leominster, and 6.1 mi (9.8 km) upstream from confluence with South Branch Nashua River.

DRAINAGE AREA.--110 mi^2 or 285 km^2 (revised), includes 2.1 mi^2 (5.4 km^2) above outlet of Ashby (Fitchburg) Reservoir.

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 270.04 ft (82.308 m) above mean sea level.

AVERAGE DISCHARGE.--38 years, 192 ft^3/s (5.437 m^3/s), 23.70 in/yr (602 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,940 ft^3/s (54.9 m^3/s) Apr. 2 (gage height, 5.94 ft or 1.811 m); minimum, 56 ft^3/s (1.586 m^3/s) Oct. 2; minimum daily, 62 ft^3/s (1.76 m^3/s) Sept. 30.

Period of record: Maximum discharge, 16,300 ft^3/s (462 m^3/s) Mar. 18, 1936 (gage height, 20.53 ft or 6.258 m, from floodmarks), by computation of flow over dam; minimum, 11 ft^3/s (0.31 m^3/s) Aug. 29, 1948; minimum daily, 22 ft^3/s (0.62 m^3/s) Sept. 27, 1936, Sept. 2, 1957.

Maximum discharge since at least 1850, that of Mar. 18, 1936.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Regulation at low flow by mills above station. Diversion to basin above station for municipal supplies: for Fitchburg from Ashby (Fitchburg) Reservoir since 1916 and from Mare Meadow Reservoir since 1955; for Leominster from Wachusett Reservoir since 1966 and the Southeast Well Field since 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	80	317	636	250	165	349	361	224	719	87	110
2	64	112	281	868	370	183	1,590	314	192	407	188	85
3	70	132	268	600	1,620	200	927	289	165	273	197	75
4	70	106	268	450	1,050	385	647	300	158	219	289	73
5	70	104	257	350	677	420	762	273	158	249	200	72
6	71	110	355	290	506	388	715	244	165	217	139	80
7	358	102	1,090	240	420	343	647	227	160	165	130	115
8	200	174	587	210	370	859	541	212	154	137	118	90
9	118	555	591	200	352	949	455	252	172	122	93	70
10	96	306	551	200	281	692	806	329	167	112	87	74
11	89	232	468	188	257	541	786	439	139	141	83	78
12	96	190	388	179	240	576	544	407	135	108	80	76
13	95	163	410	163	229	708	432	343	239	96	75	74
14	83	229	370	158	222	602	367	287	300	89	78	76
15	87	273	320	165	242	513	323	255	185	87	98	84
16	83	224	317	167	237	502	303	349	145	91	114	84
17	78	190	285	181	207	1,030	281	312	139	89	95	78
18	75	167	255	217	195	1,360	268	376	128	87	83	125
19	75	152	247	312	197	762	252	426	126	85	75	115
20	73	595	234	806	202	562	229	340	120	83	78	90
21	68	465	222	573	204	452	204	985	114	120	75	84
22	65	309	292	410	214	388	202	669	116	98	75	78
23	71	249	329	1,130	217	343	200	475	118	89	84	74
24	75	214	281	850	195	312	195	376	106	85	96	70
25	75	190	265	587	174	292	183	326	106	82	84	80
26	73	762	260	449	179	410	284	295	104	80	82	75
27	70	747	262	373	165	426	830	268	181	141	88	75
28	71	436	249	346	158	346	976	289	229	124	94	71
29	118	364	222	340	------	306	617	404	212	87	86	68
30	89	306	204	330	------	284	445	314	778	89	78	62
31	83	------	214	289	------	268	------	287	------	87	120	------
TOTAL	2,874	8,238	10,659	12,257	9,630	15,567	15,360	11,023	5,435	4,658	3,349	2,461
MEAN	92.7	275	344	395	344	502	512	356	181	150	108	82.0
MAX	358	762	1,090	1,130	1,620	1,360	1,590	985	778	719	289	125
MIN	64	80	204	158	158	165	183	212	104	80	75	62
MEAN†	88.7	269	340	395	344	502	512	354	179	149	105	73.2
CFSM†	.81	2.45	3.09	3.59	3.13	4.56	4.65	3.22	1.63	1.35	.95	.67
IN†	.93	2.73	3.56	4.15	3.26	5.26	5.19	3.71	1.82	1.56	1.10	.74

CAL YR 1972 TOTAL 98,195 MEAN 268 MAX 1,250 MIN 59 MEAN† 265 CFSM† 2.41 IN† 32.82
WTR YR 1973 TOTAL 101,511 MEAN 278 MAX 1,620 MIN 62 MEAN† 276 CFSM† 2.51 IN† 34.02

PEAK DISCHARGE (BASE, 1,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1830	4.74	1,250	3-16	0100	5.85	1,880
12-7	0315	5.10	1,440	4-2	1030	5.94	1,940
1-1	2130	4.44	1,100	4-10	1745	4.48	1,120
1-23	1500	4.76	1,260	4-28	0100	4.46	1,110
2-3	1445	5.74	1,810	5-21	1145	4.67	1,220
3-8	1930	4.96	1,360	6-30	1815	4.49	1,130

† Adjusted for diversions from Mare Meadow Reservoir for Fitchburg and from Wachusett Reservoir and Southeast Well Field for Leominster; records furnished by municipalities.

NOTE.--No gage-height record Aug. 21 to Sept. 24.

01095500 South Branch Nashua River at Clinton, Mass.

LOCATION.--Lat 42°24'12", long 71°41'19", Worcester County, at Wachusett Dam, 1 mi (1.6 km) south of Clinton.

DRAINAGE AREA.--107.69 mi² (278.92 km²) since July 1937.

PERIOD OF RECORD.--July 1896 to current year.

AVERAGE DISCHARGE.--77 years, 188 ft³/s (5.324 m³/s), 23.71 in/yr (602 mm/yr), adjusted to present drainage area.

REMARKS.--Flow regulated by Wachusett Reservoir and several ponds. Records adjusted for change in contents in and wastage from Wachusett Reservoir and diversions from Ware River and Quabbin Reservoir on Swift River. Entire flow, except wastage, diverted for use of Boston metropolitan district and other municipalities.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

REVISIONS (WATER YEARS).--WSP 1051: 1928.

MONTHLY DISCHARGE AND RAINFALL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Month	Runoff (millions of gallons)	Discharge per square mile		Runoff (inches)	Rainfall (inches)
		Millions of gallons per day	Cubic feet per second		
October	898.7	0.269	0.42	0.48	4.09
November	7,235.1	2.239	3.46	3.87	9.03
December	8,295.0	2.485	3.84	4.43	6.55
Calendar year 1972	71,220.0	1.807	2.80	38.05	64.07
January	8,534.0	2.556	3.96	4.56	3.41
February	7,446.4	2.470	3.82	3.98	2.92
March	10,236.5	3.066	4.74	5.47	4.20
April	10,420.2	3.225	4.99	5.57	6.73
May	7,078.7	2.120	3.28	3.78	4.74
June	3,799.7	1.176	1.82	2.03	6.11
July	2,811.3	.842	1.30	1.50	3.45
August	1,211.9	.363	.56	.65	3.83
September	464.5	.144	.22	.25	2.28
Water year 1973	68,432.0	1.741	2.69	36.56	57.34

01096000 Squannacook River near West Groton, Mass.

LOCATION.--Lat 42°38'03", long 71°39'30", Middlesex County, on left bank 0.7 mi (1.1 km) downstream from Trout Brook and 2.7 mi (4.3 km) northwest of West Groton.

DRAINAGE AREA.--62.8 mi² (162.7 km²), excludes 2.10 mi² (5.44 km²) above outlet of Ashby (Fitchburg) Reservoir.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 244.27 ft (74.453 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 108 ft³/s (3.059 m³/s), 23.35 in/yr (593 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,580 ft³/s (44.7 m³/s) Apr. 2 (gage height, 6.16 ft or 1.878 m); minimum daily, 12 ft³/s (0.34 m³/s) Sept. 30.

Period of record: Maximum discharge, 4,010 ft³/s (114 m³/s) Oct. 16, 1955 (gage height, 8.04 ft or 2.451 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum daily, 2.0 ft³/s (0.057 m³/s) Sept. 7, 1965.

REMARKS.--Records good. Occasional regulation at low flow by mill above station; regulation greater prior to 1961. During most years, entire flow from 2.10 mi² (5.44 km²) above outlet of Ashby (Fitchburg) Reservoir diverted for municipal supply of Fitchburg; some wastage at times during water years 1964, 1967-73.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	38	209	c10	190	95	187	216	134	474	22	17
2	20	37	196	439	190	100	795	189	116	260	30	17
3	19	52	169	317	481	118	1,050	174	100	155	80	16
4	19	65	167	218	740	160	499	176	92	117	180	16
5	18	54	146	191	457	263	432	169	88	153	120	15
6	18	52	164	160	300	253	481	155	85	141	70	15
7	31	52	446	130	239	221	453	141	88	100	55	17
8	128	53	453	115	214	315	367	129	105	88	45	21
9	90	203	312	105	201	629	295	140	99	70	38	19
10	54	270	320	100	175	474	341	248	88	56	35	18
11	41	160	274	96	150	358	611	261	76	54	30	17
12	37	117	218	93	130	317	399	296	66	59	27	16
13	37	100	196	88	132	535	290	231	131	49	25	14
14	35	99	209	83	132	515	245	189	223	44	23	13
15	33	134	180	89	143	392	221	161	162	43	23	15
16	32	118	139	90	146	367	203	188	106	44	25	14
17	31	96	175	92	135	502	191	215	103	43	28	14
18	29	84	150	105	115	1,140	180	187	92	38	25	20
19	28	79	135	155	110	595	169	260	80	35	23	32
20	28	192	131	370	118	399	158	218	70	33	21	30
21	32	429	124	446	118	315	148	384	63	35	20	22
22	29	243	129	288	123	268	143	524	57	47	19	19
23	28	158	155	415	131	236	139	301	59	36	18	19
24	28	128	144	584	123	218	131	219	59	30	17	17
25	28	117	137	370	108	209	121	185	52	27	16	16
26	26	245	136	263	108	241	128	167	49	26	16	16
27	25	826	136	225	93	341	344	152	58	31	17	15
28	25	425	129	209	90	255	571	145	143	32	16	14
29	30	281	118	174	------	216	486	199	121	27	16	13
30	37	232	108	220	------	198	276	188	253	25	15	12
31	40	------	108	230	------	187	------	150	------	22	16	------
TOTAL	1,076	5,139	5,813	6,670	5,392	10,432	10,014	6,557	3,018	2,394	1,111	519
MEAN	34.7	171	188	215	193	337	334	212	101	77.2	35.8	17.3
MAX	128	826	453	584	740	1,140	1,050	524	253	474	180	32
MIN	18	37	108	83	90	95	121	129	49	22	15	12
CFSM	.55	2.72	2.99	3.42	3.07	5.37	5.32	3.38	1.61	1.23	.57	.28
IN.	.64	3.04	3.44	3.95	3.19	6.18	5.93	3.88	1.79	1.42	.66	.31

CAL YR 1972 TOTAL 55,478.9 MEAN 152 MAX 826 MIN 8.9 CFSM 2.42 IN 32.86
WTR YR 1973 TOTAL 58,135.0 MEAN 159 MAX 1,140 MIN 12 CFSM 2.53 IN 34.44

PEAK DISCHARGE (BASE, 700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0930	5.41	997				
2-4	0200	5.14	837				
3-18	1100	5.92	1,380				
4-2	2330	6.16	1,580				

01096500 Nashua River at East Pepperell, Mass.

LOCATION.--Lat 42°40'03", long 71°34'32", Middlesex County, on right bank 200 ft (60 m) downstream from powerplant of Pepperell Paper Co. at East Pepperell and 0.8 mi (1.3 km) upstream from Nissitissit River.

DRAINAGE AREA.--Total above gage, 433 mi² (1,121 km²); net above gage, 316 mi² or 818 km² (flow diverted from 117 mi² or 303 km² for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--October 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 169.04 ft (51.523 m) above mean sea level.

AVERAGE DISCHARGE.--38 years, 526 ft³/s (14.90 m³/s), 22.60 in/yr (574 mm/yr), adjusted for wastage and since 1966 for diversion to Nashua River.

EXTREMES.--Current year: Maximum discharge, 4,050 ft³/s (115 m³/s) Apr. 3 (gage height, 7.53 ft or 2.295 m); minimum daily, 7.0 ft³/s (0.20 m³/s) Sept. 30.

Period of record: Maximum discharge, 20,900 ft³/s (592 m³/s) Mar. 20, 1936 (gage height, 19.1 ft or 5.82 m, from floodmarks), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of velocity-area studies; minimum daily, 1.1 ft³/s (0.031 m³/s) Aug. 13, 1939.

REMARKS.--Records good. Extremes and daily discharge include water wasted in diverting drainage from basin of South Branch Nashua River for use of Boston metroplitan district, water diverted into basin from Ware River basin since 1955 for municipal use of Fitchburg, and water diverted around station through plant of Pepperell Paper Co. Flow regulated by powerplant above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WSP 801: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	275	1,150	877	855	494	685	1,350	802	1,880	307	223
2	154	296	1,070	1,720	859	512	1,910	1,090	715	1,960	490	220
3	204	342	967	1,850	1,640	615	3,720	955	700	1,340	758	217
4	201	352	937	1,460	2,950	690	3,580	919	485	967	895	154
5	198	342	919	1,210	3,310	1,070	2,820	883	370	803	764	172
6	191	324	889	1,060	2,390	1,170	2,570	819	408	895	503	166
7	191	321	1,440	819	1,660	1,090	2,360	764	473	877	416	159
8	808	398	2,050	544	1,360	1,220	2,030	720	548	579	391	268
9	901	859	1,820	590	1,230	2,110	1,680	710	557	473	398	223
10	457	1,430	1,660	580	1,080	2,390	1,610	853	553	348	345	179
11	335	1,140	1,520	660	937	2,000	2,300	1,060	508	448	321	204
12	324	877	1,280	553	830	1,980	2,360	1,230	384	445	317	217
13	321	685	1,130	535	797	1,770	1,770	1,110	387	432	282	182
14	314	705	1,100	512	758	1,990	1,420	943	709	349	261	98
15	307	947	1,140	469	753	1,750	1,220	819	907	328	261	182
16	293	1,010	1,030	490	791	1,590	1,110	859	610	384	258	251
17	230	835	901	494	690	1,730	1,020	973	544	416	293	142
18	201	731	802	620	620	2,800	961	943	461	461	366	179
19	251	650	841	620	665	3,330	889	1,090	398	349	314	420
20	286	901	830	1,290	635	2,500	824	1,080	412	275	247	420
21	289	1,840	791	1,840	630	1,800	764	1,420	412	380	247	166
22	279	1,760	797	1,610	705	1,430	720	2,140	412	432	247	201
23	220	1,240	967	1,670	660	1,240	710	1,900	356	331	244	198
24	188	973	847	2,380	665	1,110	705	1,390	331	286	160	207
25	217	841	824	2,300	620	1,020	499	1,110	354	342	175	214
26	237	1,010	931	1,730	590	1,050	680	973	370	384	240	211
27	214	2,040	871	1,370	526	1,330	1,250	865	377	321	163	128
28	214	2,450	847	1,200	485	1,290	2,080	791	776	314	157	154
29	240	1,710	786	1,120	------	1,090	2,290	901	913	321	214	82
30	307	1,280	751	931	------	979	1,800	985	1,030	343	250	7.0
31	310	------	655	961	------	913	------	863	------	398	198	------
TOTAL	8,890.1	28,614	32,523	34,045	29,689	46,053	48,535	32,528	16,267	18,011	10,462	5,824.0
MEAN	287	954	1,049	1,098	1,060	1,486	1,618	1,049	542	581	337	194
MAX	901	2,450	2,050	2,380	3,310	3,330	3,720	2,140	1,030	1,960	895	420
MIN	8.1	275	655	469	485	494	499	710	331	275	157	7.0
MEAN†	277	942	1,036	1,088	1,051	1,478	1,611	1,043	535	574	330	181
CFSM†	.88	2.98	3.28	3.44	3.33	4.68	5.10	3.30	1.69	1.82	1.04	.57
IN.†	1.01	3.33	3.78	3.97	3.47	5.39	5.69	3.80	1.89	2.09	1.20	.64

CAL YR 1972 TOTAL 288,849.1 MEAN 789 MAX 3,740 MIN 8.1 MEAN† 778 CFSM† 2.46 IN† 33.54
WTR YR 1973 TOTAL 311,441.1 MEAN 853 MAX 3,720 MIN 7.0 MEAN† 844 CFSM† 2.67 IN† 36.27

† Adjusted for water wasted in diverting drainage from basin of South Branch Nashua River for use of Boston metroplitan district and for water diverted into basin from Ware River basin and for municipal supply of Fitchburg (figures represent discharge from net drainage area). Records of wastage furnished by Water Division of Metroplitan District Commission and records of diversion furnished by city of Fitchburg.

01096910 Boulder Brook at East Bolton, Mass.

LOCATION.--Lat 42°27'04", long 71°34'39", Worcester County, on right bank 900 ft (250 m) downstream from Interstate Highway 495, 0.9 mi (1.4 km) west of East Bolton, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--1.61 mi² (4.17 km²).

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (88 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 48 ft³/s (1.36 m³/s) Feb. 2 (gage height, 2.63 ft or 0.802 m), from rating curve extended above 19 ft³/s (0.54 m³/s); minimum not determined; minimum daily, 0.08 ft³/s (0.002 m³/s) Sept. 13.

Period of record: Maximum discharge, 71 ft³/s (2.01 m³/s) Mar. 22, 1972 (gage height, 2.76 ft or 0.841 m), from rating curve extended above 19 ft³/s (0.54 m³/s); minimum, 0.02 ft³/s (0.001 m³/s) Aug. 25-27, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.59	5.6	8.9	4.0	1.8	6.1	3.5	2.6	9.0	.35	.17
2	.21	.86	5.2	7.3	11	2.2	25	3.3	2.1	5.5	2.5	.15
3	.21	1.1	5.2	4.9	23	2.6	11	3.3	1.8	3.5	4.5	.13
4	.21	.80	5.4	4.7	11	3.8	9.2	3.7	1.6	2.5	1.5	.12
5	.19	.80	4.5	5.2	8.9	4.5	12	3.3	1.6	6.0	.80	.11
6	.19	.74	8.9	4.2	7.6	3.8	11	3.0	1.6	4.5	.54	.15
7	7.3	.69	14	3.5	7.3	3.7	8.9	2.6	1.6	2.8	.42	.35
8	3.5	3.3	6.9	3.0	6.9	7.3	7.9	2.5	1.3	2.1	.32	.22
9	1.5	10	8.2	3.0	6.6	6.6	6.6	3.5	2.0	1.5	.29	.15
10	.93	4.0	8.2	3.0	4.9	5.6	13	4.2	2.3	1.2	.23	.12
11	.80	3.0	7.3	2.8	4.7	5.2	10	4.2	1.3	2.0	.21	.16
12	.93	2.6	5.8	2.3	3.8	5.4	6.6	4.2	1.1	1.8	.23	.12
13	1.1	2.6	6.1	2.1	4.0	5.4	6.1	3.3	5.2	1.4	.21	.08
14	.80	6.6	6.3	2.1	3.8	4.9	5.6	2.8	4.0	.90	.17	.11
15	.69	6.1	5.2	2.2	3.7	4.7	5.2	2.3	1.8	1.2	.59	.15
16	.64	3.5	4.9	2.3	4.0	4.9	4.9	3.7	1.4	1.0	.93	.13
17	.64	3.0	5.2	2.8	3.8	8.9	4.5	3.0	1.3	.90	.50	.12
18	.59	3.0	4.2	4.7	3.2	8.5	4.2	3.2	1.1	.80	.35	.60
19	.54	2.6	4.2	5.8	3.0	6.1	4.0	3.0	1.1	.64	.29	.50
20	.54	15	4.2	13	2.8	5.4	3.7	2.5	.93	.54	.23	.23
21	.50	7.3	3.8	5.6	3.2	4.9	3.3	8.9	.86	.86	.19	.15
22	.50	5.4	5.8	5.2	3.2	4.9	3.3	4.9	.86	.93	.19	.13
23	.50	4.7	5.6	15	3.3	4.5	3.2	3.7	1.2	.64	.19	.13
24	.50	4.7	4.7	9.5	3.0	4.5	3.5	3.3	1.0	.50	.15	.13
25	.50	4.2	4.5	7.3	2.3	4.0	3.0	3.3	.80	.38	.12	.13
26	.50	13	4.2	6.9	2.3	6.6	4.7	3.2	.80	.32	.11	.12
27	.46	7.9	4.2	6.6	2.3	5.4	7.9	3.2	1.3	.93	.21	.12
28	.50	5.6	4.0	6.6	2.0	3.8	6.9	3.3	1.2	1.1	.15	.11
29	.86	5.4	3.5	5.2	------	3.5	4.7	5.4	2.5	.59	.11	.09
30	.80	4.9	3.2	6.3	------	3.5	3.8	3.2	15	.42	.09	.09
31	.64	------	3.2	5.2	------	3.5	------	3.0	------	.35	.10	------
TOTAL	27.98	133.98	172.2	167.2	149.6	150.4	209.8	110.5	63.25	56.80	16.77	5.07
MEAN	.90	4.47	5.55	5.39	5.34	4.85	6.99	3.56	2.11	1.83	.54	.17
MAX	7.3	15	14	15	23	8.9	25	8.9	15	9.0	4.5	.60
MIN	.19	.59	3.2	2.1	2.0	1.8	3.0	2.3	.80	.32	.09	.08
CFSM	.56	2.77	3.45	3.35	3.31	3.01	4.34	2.21	1.31	1.14	.34	.11
IN.	.65	3.09	3.98	3.86	3.45	3.47	4.84	2.55	1.46	1.31	.39	.12

CAL YR 1972 TOTAL 1,505.24 MEAN 4.11 MAX 30 MIN .12 CFSM 2.55 IN 34.76
WTR YR 1973 TOTAL 1,263.55 MEAN 3.46 MAX 25 MIN .08 CFSM 2.15 IN 29.18

PEAK DISCHARGE (BASE, 28 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	2245	2.63	48				
4-2	0600	2.60	43				
6-30	-	-	unknown				

NOTE.--No gage-height record June 26 to July 17.

01097000 Assabet River at Maynard, Mass.

LOCATION.--Lat 42°25'55", long 71°27'01", Middlesex County, on right bank at Maynard, 150 ft (46 m) upstream from bridge on State Highway 27, 1.7 mi (2.7 km) downstream from Assabet Brook, and 7.1 mi (11.4 km) upstream from confluence with Sudbury River.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 142.12 ft (43.318 m) above mean sea level.

AVERAGE DISCHARGE.--32 years, 181 ft³/s (5.126 m³/s), 21.19 in/yr (538 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,160 ft³/s (32.9 m³/s) Feb. 4 (gage height, 5.20 ft or 1.585 m); minimum daily, 34 ft³/s (0.96 m³/s) Oct. 5.

Period of record: Maximum discharge, 4,250 cfs (120 m³/s) Aug. 20, 1955 (gage height, 8.94 ft or 2.725 m); maximum gage height, 8.96 ft (2.731 m) Aug. 20, 1955 (backwater from debris); minimum daily discharge, 0.20 cfs (0.006 m³/s) Feb. 7, 1965.

Maximum discharge since at least 1886, that of Aug. 20, 1955.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1969. High flow slightly affected by retarding reservoirs since 1962. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1945-46.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	60	397	400	313	194	252	340	262	502	151	72
2	38	80	407	568	316	203	544	302	226	495	151	75
3	36	100	418	580	800	228	679	274	192	407	171	68
4	35	110	397	512	1,140	274	845	262	171	313	211	52
5	34	115	404	460	943	334	775	254	158	304	233	48
6	37	105	428	418	715	361	790	236	154	304	221	57
7	119	111	600	360	592	349	679	221	145	304	178	71
8	285	123	710	310	523	367	564	208	134	279	140	66
9	302	319	665	270	491	474	491	208	138	228	123	59
10	241	470	625	240	432	505	491	254	156	187	111	52
11	130	470	584	228	370	442	604	296	145	178	109	45
12	150	373	526	216	334	388	612	328	128	228	111	42
13	120	290	484	206	310	373	512	331	178	216	109	40
14	100	288	456	194	288	373	442	285	276	192	104	39
15	85	407	449	189	293	352	391	241	322	165	119	51
16	78	470	407	196	307	331	361	246	262	149	149	60
17	70	421	394	203	290	361	331	257	194	138	160	61
18	63	355	394	226	255	488	316	262	158	123	151	94
19	58	285	370	265	254	556	304	260	140	117	123	171
20	54	379	349	411	249	470	285	246	128	111	104	194
21	50	540	331	502	260	394	271	358	115	119	93	165
22	47	568	355	467	276	355	251	453	111	134	78	132
23	45	481	411	519	290	331	241	435	134	136	69	117
24	44	397	428	661	285	307	241	352	145	121	64	109
25	43	337	407	580	257	290	241	293	147	100	60	128
26	42	388	391	463	238	302	244	262	128	89	55	126
27	41	495	394	391	221	343	319	236	119	128	60	111
28	40	540	391	370	203	358	428	223	187	192	63	102
29	48	484	367	349	------	316	467	262	310	189	60	96
30	56	411	328	315	------	310	407	274	435	178	50	86
31	60	------	310	331	------	274	------	271	------	162	46	------
TOTAL	2,641	9,972	13,577	11,400	11,245	11,003	13,378	8,730	5,498	6,488	3,627	2,589
MEAN	85.2	332	438	368	402	355	446	282	183	209	117	86.3
MAX	302	568	710	661	1,140	556	845	453	435	502	233	194
MIN	34	60	310	189	203	194	241	208	111	89	46	39
CFSM	.73	2.86	3.78	3.17	3.47	3.06	3.84	2.43	1.58	1.80	1.01	.74
IN.	.85	3.20	4.35	3.66	3.61	3.53	4.29	2.80	1.76	2.08	1.16	.83

CAL YR 1972 TOTAL 103,822 MEAN 284 MAX 1,500 MIN 15 CFSM 2.45 IN 33.29
WTR YR 1973 TOTAL 100,148 MEAN 274 MAX 1,140 MIN 34 CFSM 2.36 IN 32.12

01097300 Nashoba Brook near Acton, Mass.

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, on right bank 1,500 ft (450 m) downstream from dam at North Acton, 2.2 mi (3.5 km) northeast of Acton, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--12.7 mi² (32.9 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-63. July 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 17.5 ft³/s (0.496 m³/s), 18.71 in/yr (475 mm/yr).

EXTREMES.--Current year: Maximum discharge, 248 ft³/s (7.02 m³/s) Feb. 4, Apr. 2; maximum gage height, 4.66 ft (1.420 m) Feb. 4; minimum discharge, 0.88 ft³/s (0.025 m³/s) Aug. 11, 12.
Period of record: Maximum discharge, 360 ft³/s (10.2 m³/s) Mar. 19, 1968 (gage height, 5.07 ft or 1.545 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 6, 1968.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation since 1967 by small pond above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	7.1	37	35	40	15	29	38	24	106	3.4	2.0
2	1.8	6.8	41	58	45	16	141	31	21	66	4.5	2.0
3	1.7	8.8	40	60	169	22	201	28	13	36	17	1.9
4	1.5	11	38	46	171	29	106	26	11	24	30	1.9
5	1.4	11	35	40	100	38	99	22	12	24	16	2.0
6	1.3	11	37	35	72	40	132	20	12	38	10	1.9
7	5.8	9.8	60	29	60	39	79	20	12	26	7.7	3.0
8	36	9.6	75	25	54	44	63	18	11	17	5.6	2.6
9	45	49	62	23	50	62	54	18	10	13	4.6	2.9
10	26	74	56	20	41	56	58	31	11	11	5.1	2.4
11	15	60	52	18	37	50	84	39	11	9.6	3.1	2.0
12	8.4	43	44	17	32	47	71	41	8.2	9.8	.98	1.9
13	6.8	33	41	16	29	49	56	35	11	9.2	1.3	1.6
14	9.8	33	38	15	27	45	39	26	26	8.0	1.6	1.5
15	9.6	54	37	16	28	42	39	21	21	7.3	2.5	1.6
16	8.4	64	35	17	29	39	36	24	13	7.9	6.6	1.7
17	7.3	50	32	19	28	50	33	30	11	7.5	8.4	1.7
18	6.6	37	31	26	25	80	31	27	9.5	6.6	6.4	2.1
19	6.1	32	29	38	23	69	30	33	8.7	6.1	5.1	5.7
20	5.6	47	27	70	21	54	29	32	7.9	5.7	4.4	6.4
21	5.2	82	26	80	22	45	25	50	7.4	7.8	4.1	4.3
22	4.5	72	32	55	25	39	23	70	7.0	13	2.4	3.3
23	4.7	50	40	90	28	35	22	49	8.0	10	2.6	3.0
24	4.6	40	44	92	29	33	22	35	18	7.2	2.8	3.0
25	4.6	36	40	75	25	30	21	27	8.1	6.3	2.5	2.9
26	4.4	43	37	59	21	34	21	24	7.2	5.1	2.3	2.6
27	4.2	60	37	51	18	51	52	22	7.7	5.4	2.1	2.5
28	4.2	58	36	49	16	47	78	20	11	5.4	2.1	2.4
29	4.7	46	34	56	------	37	70	30	17	3.4	2.0	2.1
30	6.4	40	29	45	------	31	69	33	68	4.5	3.3	1.9
31	7.5	------	24	42	------	28	------	26	------	2.8	2.5	------
TOTAL	262.6	1,179.1	1,226	1,315	1,265	1,295	1,761	946	423.7	509.6	172.98	76.8
MEAN	8.48	39.3	39.5	42.4	45.2	41.8	58.7	30.5	14.1	16.4	5.58	2.56
MAX	45	82	75	92	171	80	201	70	68	106	30	6.4
MIN	1.3	6.8	24	15	16	15	21	18	7.0	2.8	.98	1.5
CFSM	.67	3.09	3.11	3.34	3.56	3.29	4.62	2.40	1.11	1.29	.44	.20
IN.	.77	3.45	3.59	3.85	3.71	3.79	5.16	2.77	1.24	1.49	.51	.22

CAL YR 1972 TOTAL 10,905.50 MEAN 29.8 MAX 150 MIN 1.1 CFSM 2.35 IN 31.94
WTR YR 1973 TOTAL 10,432.98 MEAN 28.6 MAX 201 MIN .98 CFSM 2.25 IN 30.56

PEAK DISCHARGE (BASE, 90 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-4	0300	4.66	248				
4-2	2100	4.41	248				
7-1	0500	3.81	115				

01097500 Sudbury River at Framingham Center, Mass.

LOCATION.--Lat 42°17'29", long 71°26'35", Middlesex County, at dam of Framingham Reservoir No. 1, 0.5 mi (0.8 km) upstream from outlet of Farm Pond and 0.8 mi (1.3 km) southwest of Framingham Center.

DRAINAGE AREA.--75.2 mi² (194.8 km²) since January 1881.

PERIOD OF RECORD.--January 1875 to current year.

AVERAGE DISCHARGE.--98 years, 114 ft³/s (3.228 m³/s), 20.59 in/yr (523 mm/yr), adjusted to present drainage area.

REMARKS.--Records adjusted for change in reservoir contents, diversions, and wastage. Flow diverted as needed for use of Boston metropolitan district. Part of flow from Wachusett Reservoir on South Branch Nashua River is diverted into Sudbury Reservoir en route to Boston metropolitan district.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

REVISIONS (WATER YEARS).--WSP 1051: 1937.

MONTHLY DISCHARGE AND RAINFALL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Month	Runoff (millions of gallons)	Discharge per square mile		Runoff (inches)	Rainfall (inches)
		Millions of gallons per day	Cubic feet per second		
October	951.0	0.408	0.63	0.73	2.96
November	5,358.8	2.375	3.68	4.10	8.98
December	6,826.6	2.928	4.53	5.22	6.51
Calendar year 1972	51,126.2	1.858	2.87	39.12	60.97
January	4,735.8	2.031	3.14	3.62	2.82
February	5,184.4	2.462	3.81	3.97	2.32
March	3,989.4	1.711	2.65	3.05	2.29
April	5,071.8	2.248	3.48	3.88	5.54
May	3,279.8	1.407	2.18	2.51	4.18
June	2,262.0	1.003	1.55	1.73	5.02
July	-,499.0	1.072	1.66	1.91	5.80
August	948.5	.407	.63	.73	3.70
September	331.8	.147	.23	.25	2.18
Water year 1973	41,438.9	1.510	2.34	31.70	52.30

01099500 Concord River below River Meadow Brook at Lowell, Mass.

LOCATION.--Lat 42°38'12", long 71°18'09", Middlesex County, on right bank 300 ft (90 m) downstream from Rogers Street Bridge at Lowell, 0.3 mi (0.5 km) downstream from River Meadow Brook, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--Total above gage, 405 mi² (1,049 km²); net above gage, 312 mi² (808 km²) - diversion as needed from 92.6 mi² (239.8 km²) for use of Boston metropolitan district.

PERIOD OF RECORD.--October 1936 to current year. October, November 1936 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 67.41 ft (20.547 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--37 years, 456 ft³/s (12.91 m³/s), 19.85 in/yr (504 mm/yr), adjusted to net drainage area.

EXTREMES.--Current year: Maximum discharge, 2,260 ft³/s (64.0 m³/s) about Feb. 5 (gage height, 7.20 ft or 2.195 m, from peak-stage indicator); minimum daily, 117 ft³/s (3.31 m³/s) Oct. 6.

Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) Mar. 22, 1968 (gage height, 9.16 ft or 2.792 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 29, 1957.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Daily discharge includes water wasted from 92.6 mi² (239.8 km²) in basins of Sudbury River and Lake Cochituate. Prior to December 1961, water diverted above station for use of city of Lowell. Low flow regulated by mills above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	265	1,430	1,360	950	775	887	1,120	843	1,100	485	181
2	132	298	1,420	1,470	1,100	759	1,330	1,090	797	1,150	526	170
3	129	332	1,410	1,510	1,600	753	1,490	1,040	743	1,200	573	167
4	127	354	1,380	1,540	2,100	812	1,610	992	698	1,200	556	162
5	122	383	1,370	1,550	2,200	878	1,830	947	650	1,150	544	153
6	117	387	1,400	1,450	2,100	913	1,850	904	616	1,100	536	162
7	224	384	1,550	1,300	1,900	940	1,850	868	597	1,050	517	184
8	445	385	1,640	1,200	1,700	1,010	1,800	834	558	950	494	176
9	520	622	1,750	1,180	1,600	1,070	1,720	826	524	900	447	163
10	544	792	1,840	1,090	1,500	1,100	1,720	860	512	800	400	158
11	543	899	1,880	995	1,400	1,140	1,750	880	489	720	356	153
12	523	973	1,850	927	1,300	1,150	1,710	908	464	660	337	157
13	495	982	1,820	867	1,250	1,130	1,660	915	497	620	339	159
14	460	993	1,770	819	1,200	1,120	1,580	908	576	580	324	160
15	422	1,080	1,690	800	1,150	1,100	1,500	878	599	540	324	166
16	399	1,130	1,550	773	1,100	1,080	1,420	895	624	480	361	177
17	370	1,150	1,480	764	1,050	1,120	1,340	871	617	450	383	179
18	335	1,150	1,460	790	1,000	1,210	1,280	856	588	430	395	202
19	301	1,130	1,460	842	960	1,200	1,190	883	569	410	366	256
20	275	1,240	1,410	1,020	950	1,210	1,110	855	507	390	342	291
21	262	1,320	1,330	1,060	920	1,180	1,050	1,010	469	410	318	297
22	250	1,350	1,340	1,160	900	1,110	996	1,050	442	420	288	290
23	238	1,380	1,370	1,350	900	1,050	944	1,070	438	430	257	279
24	224	1,360	1,390	1,500	900	1,030	913	1,060	426	420	227	296
25	213	1,310	1,400	1,600	860	993	872	1,020	410	389	205	252
26	208	1,350	1,410	1,500	840	980	854	961	399	348	187	255
27	207	1,420	1,410	1,350	870	977	968	913	401	336	180	254
28	202	1,410	1,400	1,200	830	972	1,090	873	450	367	177	235
29	217	1,430	1,360	1,050	------	956	1,140	895	700	405	173	223
30	237	1,400	1,310	1,000	------	928	1,150	866	900	474	163	206
31	255	------	1,200	950	------	903	------	862	------	485	170	------
TOTAL	9,133	28,662	46,590	35,937	35,050	31,554	40,534	28,894	17,082	20,364	10,930	6,123
MEAN	295	955	1,503	1,159	1,252	1,018	1,351	932	569	657	353	204
MAX	544	1,430	1,880	1,600	2,200	1,210	1,850	1,120	900	1,200	573	297
MIN	117	265	1,200	764	830	753	854	826	399	336	163	153
MEAN†	253	677	1,065	880	917	793	1,120	732	470	525	290	150
CFSM†	.81	2.17	3.41	2.82	2.94	2.54	3.59	2.35	1.51	1.68	.93	.48
IN.†	.94	2.42	3.93	3.25	3.06	2.93	4.00	2.71	1.68	1.94	1.07	.54

CAL YR 1972 TOTAL 348,151 MEAN 951 MAX 3,460 MIN 96 MEAN† 715 CFSM† 2.29 IN† 31.19
WTR YR 1973 TOTAL 310,853 MEAN 852 MAX 2,200 MIN 117 MEAN† 654 CFSM† 2.10 IN† 28.47

† Adjusted for water wasted from 92.6 mi² in basins of Sudbury River and Lake Cochituate (figures represent net discharge from net drainage area). Records of wastage furnished by Water Division of Metropolitan District Commission.

NOTE.--No gage-height record Jan. 23 to Feb. 27, June 28 to July 23.

01100000 Merrimack River below Concord River, at Lowell, Mass.

LOCATION.--Lat 42°38'45", long 71°17'56", Middlesex County, on right bank at Lowell, 1,100 ft (350 m) downstream from Concord River.

DRAINAGE AREA.--Total above gage, 4,635 mi² (12,005 km²); net above gage, 4,425 mi² (11,461 km²) - diversions as needed from 210 mi² (544 km²) for use of Boston metropolitan district and city of Worcester.

PERIOD OF RECORD.--June 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.18 ft (1.579 m) above mean sea level. Prior to Mar. 7, 1934, at Boott Mills 1,800 ft (550 m) upstream and 700 ft (200 m) above mouth of Concord River, in same gage pool and at same datum; gage-height record (furnished by Proprietors of the Locks and Canals on Merrimack River) was indicative of flow including that of Concord River.

AVERAGE DISCHARGE.--50 years, 7,168 ft³/s (203.0 m³/s) 22.00 in/yr (559 mm/yr), adjusted for wastage to Merrimack River.

EXTREMES.--Current year: Maximum discharge, 44,800 ft³/s (1,270 m³/s) Apr. 4 (gage height, 51.47 ft or 15.688 m); minimum daily, 668 ft³/s (18.9 m³/s) Sept. 9.

Period of record: Maximum discharge, 173,000 ft³/s (4,900 m³/s) Mar. 20, 1936 (gage height, 68.4 ft or 20.85 m, from floodmarks); minimum daily, 199 ft³/s (5.64 m³/s) Sept. 23, 1923.

Maximum discharge since 1735, that of Mar. 20, 1936.

REMARKS.--Records excellent. Daily discharge includes water wasted from 210 mi² (544 km²) in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. See page 69 for description and monthend usable contents of many of these reservoirs. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	816	4,170	15,500	8,840	28,500	7,510	15,500	19,800	15,700	31,600	3,180	1,560
2	1,970	4,280	14,200	12,900	27,900	7,410	21,900	17,000	14,300	34,100	3,440	1,530
3	2,060	4,280	13,200	14,800	29,100	7,520	40,000	14,500	13,300	30,600	6,620	1,630
4	1,900	4,980	12,300	15,400	36,800	8,360	43,400	13,500	12,000	28,400	12,900	2,290
5	1,740	5,760	11,300	13,700	37,400	9,320	36,200	13,300	10,800	27,600	10,800	2,180
6	1,650	5,750	10,900	13,100	29,200	10,400	33,500	13,700	10,200	27,900	8,370	2,250
7	1,360	4,880	11,000	8,840	23,400	11,900	33,900	12,600	10,100	27,600	6,480	2,230
8	4,880	5,000	13,300	10,200	19,500	12,500	32,100	11,000	9,160	26,200	5,940	1,630
9	5,980	6,580	19,100	10,200	17,900	15,900	28,900	10,200	9,120	24,800	5,340	668
10	5,960	9,910	19,000	9,200	16,000	19,200	25,500	10,400	7,300	23,400	5,060	2,470
11	4,710	11,000	18,000	8,440	14,400	20,600	26,600	14,300	6,670	22,100	4,500	2,320
12	4,640	10,300	16,200	8,200	12,900	19,800	25,300	17,700	5,530	19,800	4,320	2,350
13	4,480	8,700	14,400	7,860	12,700	20,800	22,100	18,500	5,790	18,900	4,560	2,410
14	3,620	7,810	13,700	7,370	11,600	25,600	19,400	17,400	6,770	14,300	3,970	2,380
15	3,480	8,040	13,300	7,510	11,600	27,500	17,800	15,000	8,080	9,710	4,290	1,520
16	3,820	8,190	12,100	7,340	11,300	25,400	16,800	13,500	7,910	8,710	3,650	1,500
17	3,560	7,480	10,500	7,340	10,200	24,600	15,200	13,600	7,960	8,560	3,340	1,960
18	3,910	7,160	9,960	7,440	9,160	34,300	16,700	14,300	8,120	7,950	1,890	2,080
19	3,100	6,930	10,800	8,040	9,960	42,900	17,100	14,600	9,130	7,230	2,550	2,240
20	3,220	8,010	11,300	10,600	10,200	40,000	17,500	14,900	7,850	6,420	3,560	2,370
21	2,270	12,300	10,800	13,900	9,860	32,100	17,200	17,000	6,570	5,990	2,750	2,370
22	2,460	14,000	10,500	17,300	9,480	26,300	15,900	23,900	6,370	4,910	2,470	1,540
23	3,410	12,400	10,700	18,400	9,400	21,600	14,400	29,700	4,640	4,630	2,070	1,610
24	2,530	10,800	10,900	21,300	8,960	18,500	15,300	27,500	5,440	4,220	1,940	3,000
25	2,700	9,040	10,600	24,600	8,680	16,700	15,300	23,600	5,650	4,300	1,310	2,990
26	2,660	9,680	10,300	23,500	8,720	16,500	13,500	20,900	5,250	3,760	930	3,960
27	2,510	18,200	10,200	20,100	8,280	19,000	13,900	17,700	5,200	3,480	2,180	2,680
28	1,640	24,400	10,000	18,200	8,000	21,100	16,700	15,500	6,110	2,950	2,190	2,580
29	1,560	21,800	9,680	17,100	------	20,500	19,700	15,100	8,300	3,130	2,020	1,670
30	3,190	18,500	9,120	14,100	------	18,200	21,200	15,900	14,000	3,670	2,180	1,850
31	3,260	------	8,200	20,500	------	16,500	------	16,400	------	3,390	2,280	------
TOTAL	94,546	289,230	386,760	406,360	451,080	618,420	669,930	513,000	252,200	449,990	126,920	63,998
MEAN	3,050	9,641	12,480	13,110	16,110	19,950	22,330	16,550	8,407	14,520	4,094	2,133
MAX	5,980	24,400	19,100	24,600	37,400	42,900	43,400	29,700	15,700	34,100	12,900	3,960
MIN	816	4,170	8,200	7,340	8,000	7,410	13,500	10,200	4,640	2,950	930	668
MEAN†	3,000	9,354	12,030	12,820	15,770	19,720	22,090	16,340	8,300	14,380	4,024	2,072
CFSM†	.68	2.11	2.90	2.90	3.56	4.46	4.99	3.69	1.88	3.25	.91	.47
IN.†	.78	2.36	3.34	3.34	3.71	5.14	5.57	4.26	2.09	3.75	1.05	.52

CAL YR 1972 TOTAL 3,530,127 MEAN 9,645 MAX 35,700 MIN 816 MEAN† 9,400 CFSM† 2.12 IN† 28.92
WTR YR 1973 TOTAL 4,322,404 MEAN 11,840 MAX 43,400 MIN 668 MEAN† 11,640 CFSM† 2.63 IN† 35.71

† Adjusted for water wasted from 210 mi² in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate (figures represent net discharge from net drainage area). Records of wastage furnished by Water Division of Metropolitan District Commission.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01100600 Shawsheen River near Wilmington, Mass.

LOCATION.--Lat 42°34'05", long 71°12'55", Middlesex County, on right bank at downstream side of bridge on State Highway 129, 1 mi (1.6 km) upstream from Content Brook, and 2.5 mi (4.0 km) northwest of Wilmington.

DRAINAGE AREA.--36.6 mi² (94.8 km²).

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.44 ft (24.518 m) above mean sea level.

AVERAGE DISCHARGE.--9 years (1964-73), 53.9 ft³/s (1.526 m³/s), 20.00 in/yr (508 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 653 ft³/s (18.5 m³/s) Feb. 3 (gage height, 7.30 ft or 2.225 m); minimum, 7.4 ft³/s (0.21 m³/s) Oct. 5-7.

Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Mar. 19, 1968 (gage height, 8.60 ft or 2.621 m); minimum, 1.2 ft³/s (0.034 m³/s) Aug. 30, 31, Sept. 1, 2-4, 1966.

REMARKS.--Records good. Diversion above station at times during period January through June 1973 for municipal supply of Burlington. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1969: Drainage area. WRD Mass., N.H., R.I., Vt. 1971: 1970 (monthly and yearly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	22	91	104	63	46	52	92	62	297	78	26
2	8.9	22	135	235	61	45	273	81	56	226	59	30
3	8.1	34	135	194	453	51	466	69	48	132	59	28
4	7.8	41	109	140	514	59	264	59	42	80	62	23
5	7.6	39	95	123	252	77	224	62	37	73	60	18
6	7.4	33	91	112	158	91	227	60	29	159	51	17
7	20	29	208	87	115	83	165	58	27	172	42	25
8	88	28	257	80	100	79	128	54	25	104	36	33
9	116	107	185	65	95	90	108	55	29	68	34	33
10	84	310	168	52	90	97	102	74	31	55	32	27
11	55	214	159	46	82	86	156	96	31	50	29	21
12	34	135	136	39	72	74	141	99	19	50	27	17
13	29	96	115	38	60	68	113	95	27	51	27	16
14	29	80	110	39	57	64	100	81	53	49	28	14
15	26	129	107	40	54	59	83	67	74	43	29	14
16	23	182	93	44	60	57	74	66	59	38	34	17
17	21	135	91	46	65	64	68	80	42	35	52	16
18	19	99	81	59	61	121	64	85	32	33	52	16
19	18	81	78	76	54	136	59	84	32	31	42	32
20	17	93	77	131	52	99	57	78	24	29	36	44
21	17	193	74	176	57	79	54	98	19	30	31	45
22	16	169	75	144	61	67	50	169	16	32	26	36
23	16	117	96	192	65	63	48	137	28	33	25	24
24	16	90	115	238	65	55	48	96	45	32	23	21
25	16	77	114	158	60	54	53	77	48	28	20	19
26	15	81	107	114	57	54	52	66	39	25	18	17
27	15	137	107	98	55	70	76	59	34	24	17	16
28	15	147	107	87	52	78	149	55	36	26	17	14
29	19	112	103	80	------	72	154	61	47	45	16	13
30	25	91	91	76	------	59	111	68	146	85	14	12
31	25	------	78	72	------	52	------	67	------	110	13	------
TOTAL	823.2	3,123	3,588	3,185	2,990	2,249	3,719	2,448	1,237	2,245	1,089	682
MEAN	26.6	104	116	103	107	72.5	124	79.0	41.2	72.4	35.1	22.7
MAX	116	310	257	238	514	136	466	169	146	297	78	45
MIN	7.4	22	74	38	52	45	48	54	16	24	13	12
MEAN†	26.6	104	116	104	114	84.2	133	79.4	46.1	72.4	35.1	22.7
CFSM†	.73	2.84	3.17	2.84	3.11	2.30	3.63	2.17	1.26	1.98	.96	.62
IN.†	.84	3.17	3.65	3.28	3.24	2.65	4.05	2.50	1.41	2.28	1.11	.69

CAL YR 1972 TOTAL 30,761.1 MEAN 84.0 MAX 700 MIN 7.4 MEAN† 84.0 CFSM† 2.30 IN† 31.27
WTR YR 1973 TOTAL 27,378.2 MEAN 75.0 MAX 514 MIN 7.4 MEAN† 77.8 CFSM† 2.13 IN† 28.88

† Adjusted for diversion for municipal supply of Burlington; records furnished by town of Burlington.

PEAK DISCHARGE (BASE, 300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-10	0830	5.90	332				
2-3	1830	7.30	653				
4-2	2300	6.80	534				
7-1	1100	5.67	307				

01100700 East Meadow River near Haverhill, Mass.

LOCATION.--Lat 42°48'41", long 71°01'59", Essex County, on left bank 10 ft (3 m) downstream from culvert on State Highway 110 and 3.5 mi (5.6 km) northeast of Haverhill.

DRAINAGE AREA.--4.93 mi² (12.77 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m) from topographic map.

AVERAGE DISCHARGE.-10 years (1963-73), 9.10 ft³/s (0.258 m³/s), 25.07 in/yr (637 mm/yr).

EXTREMES.--Current year: Maximum discharge, 157 ft³/s (4.45 m³/s) Apr. 2 (gage height, 5.33 ft or 1.625 m); minimum, 0.13 ft³/s (0.004 m³/s) Oct. 5-7.
Period of record: Maximum discharge, 211 ft³/s (5.98 m³/s) Mar. 19, 1968 (gage height, 5.45 ft or 1.661 m); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 5, 6, 1963.

REMARKS.--Records fair. Recording rain gage at station since March 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	3.7	21	15	16	8.3	20	28	12	60	2.6	1.2
2	.42	3.5	24	23	18	9.2	127	25	9.0	35	3.8	1.2
3	.30	6.4	19	20	70	11	114	22	7.2	20	22	.75
4	.21	7.8	16	16	55	15	78	23	6.0	13	21	.47
5	.15	6.6	14	16	39	24	76	21	5.8	18	11	.69
6	.13	5.2	16	14	30	24	70	19	5.7	20	5.7	.69
7	3.7	4.1	38	11	24	22	53	17	5.7	9.0	3.7	.84
8	17	4.2	32	8.3	22	27	43	15	5.2	5.0	2.9	.74
9	16	40	30	6.8	22	36	37	15	4.4	3.4	2.4	.53
10	7.6	41	31	6.2	17	32	42	28	4.0	2.6	1.6	.53
11	5.2	23	29	6.0	14	28	59	26	3.4	3.6	1.2	.59
12	4.2	15	22	6.0	11	26	43	29	3.0	5.5	.80	.38
13	4.4	11	19	6.0	11	26	35	24	18	4.1	.75	.31
14	4.5	11	19	5.7	11	26	31	20	14	2.6	.75	.31
15	4.4	20	17	5.9	11	23	28	17	9.3	2.0	1.7	.43
16	4.1	18	13	6.2	11	22	27	22	7.0	2.2	4.0	.53
17	4.0	13	13	7.4	11	24	25	23	5.7	1.9	3.4	.53
18	3.4	11	15	10	11	34	24	21	4.7	1.7	1.8	.79
19	3.0	9.2	15	15	11	28	24	27	4.0	2.4	1.2	1.7
20	2.8	27	14	25	12	24	22	21	3.5	5.7	1.0	1.0
21	2.4	40	14	30	12	20	20	40	3.0	14	.87	.64
22	2.4	26	14	20	13	18	19	39	2.8	32	.75	.53
23	2.4	18	15	31	13	16	18	27	3.5	46	.75	.79
24	2.4	14	16	36	14	15	17	21	3.4	36	.52	1.0
25	2.0	13	16	26	12	14	15	18	3.0	3.1	.47	.84
26	1.7	21	16	21	11	17	15	15	2.9	.84	.47	.64
27	1.4	34	16	18	10	24	41	14	4.1	1.7	.38	.53
28	1.2	25	16	18	8.7	20	55	13	6.2	3.5	.47	.53
29	2.2	19	13	15	------	16	42	15	6.2	2.0	.58	.38
30	4.4	15	11	15	------	17	33	14	50	3.8	.42	.33
31	4.7	------	9.7	16	------	18	------	12	------	4.1	.58	------
TOTAL	113.58	505.7	573.7	475.5	520.7	664.5	1,253	671	222.7	364.54	99.56	20.42
MEAN	3.66	16.9	18.5	15.3	18.6	21.4	41.8	21.6	7.42	11.8	3.21	.68
MAX	17	41	38	36	70	36	127	40	50	60	22	1.7
MIN	.13	3.5	9.7	5.7	8.7	8.3	15	12	2.8	.84	.38	.31
CFSM	.74	3.43	3.75	3.10	3.77	4.34	8.48	4.38	1.51	2.39	.65	.14
IN.	.86	3.82	4.33	3.59	3.93	5.01	9.45	5.06	1.68	2.75	.75	.15

CAL YR 1972 TOTAL 5,452.38 MEAN 14.9 MAX 81 MIN .13 CFSM 3.02 IN 41.14
WTR YR 1973 TOTAL 5,484.90 MEAN 15.0 MAX 127 MIN .13 CFSM 3.04 IN 41.39

PEAK DISCHARGE (BASE, 65 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	1100	4.78	78				
4-2	1830	5.33	157				
6-30	-	-	†80				

† About.

NOTE.--No gage-height record June 30 to July 8.

Reservoirs in Merrimack River basin

01077500 NEWFOUND LAKE on Newfound River, 1.7 mi (2.7 km) north of Bristol, N.H., used for recreation and for storage of water for power, has usable capacity of 1,690,000,000 ft^3 (47,900,000 m^3). Records furnished by Public Service Co. of New Hampshire.

01078500 FRANKLIN FALLS RESERVOIR on Pemigewasset River, 2 mi (3 km) north of Franklin, N.H., completed in 1942, used for flood control, has usable capacity of 6,700,000,000 ft^3 (190,000,000 m^3). Records furnished by Corps of Engineers.

01079000 MERRYMEETING LAKE on Merrymeeting River, 2.5 mi (4.0 km) northeast of Alton, N.H., used for recreation and for storage of water for power, has usable capacity of 368,000,000 ft^3 (10,400,000 m^3). Records furnished by New Hampshire Fish and Game Department.

01079500 LAKE WENTWORTH above Lake Winnipesaukee at Wolfeboro Falls, N.H., used for recreation and for storage of water for power, has usable capacity of 854,000,000 ft^3 (24,200,000 m^3). Records furnished by O. P. Berry Co.

01080000 LAKE WINNIPESAUKEE on Winnipesaukee River (see p. 37).

01082500 EDWARD MACDOWELL RESERVOIR on Nubanusit Brook, at West Peterborough, N.H., 2 mi (3 km) northwest of Peterborough, completed in 1950, used for flood control, has usable capacity of 558,000,000 ft^3 (15,800,000 m^3). Records furnished by Corps of Engineers.

01085400 HOPKINTON LAKE on Contoocook River, at West Hopkinton, N.H., completed in 1962, used for flood control and recreation, has usable capacity of 3,084,000,000 ft^3 (87,340,000 m^3). Records furnished by Corps of Engineers.

01086500 BLACKWATER RESERVOIR on Blackwater River, at Swett's Mills, 1 mi (2 km) south of Webster, N.H., completed in 1941, used for flood control, has usable capacity of 2,004,000,000 ft^3 (56,750,000 m^3). Records furnished by Corps of Engineers.

01090700 EVERETT LAKE on Piscataquog River, 1.3 mi (2.1 km) southeast of East Weare, N.H., completed in 1962, used for flood control and recreation, has usable capacity of 3,768,000,000 ft^3 (106,700,000 m^3). Records furnished by Corps of Engineers.

Hopkinton and Everett Lakes, connected by a canal, are operated as a unit above elevation 400.00 ft (121.920 m). Diversion from Hopkinton Lake to Everett Lake in March 1968, April 1969.

01092500 TOWER HILL POND on Maple Falls Brook, 2.3 mi (3.7 km) north of Auburn, N.H., completed in 1939, used for storage of water for municipal supply and for power, has usable capacity of 182,000,000 ft^3 (5,150,000 m^3). Records furnished by Manchester Water Works.

01093500 MASSABESIC LAKE on Cohas Brook, 2.5 mi (4.0 km) southeast of Manchester, N.H., used for storage of water for municipal supply, has usable capacity of 724,000,000 ft^3 (20,500,000 m^3). Records furnished by Manchester Water Works.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	Newfound Lake	Franklin Falls Reservoir	Merrymeeting Lake	Lake Wentworth	Edward MacDowell Reservoir
Sept. 30, 1972	965	120	306	660	17.5
Oct. 31	889	115	298	500	19.1
Nov. 30	1,440	155	346	790	28.5
Dec. 31	1,388	107	309	810	16.7
Jan. 31, 1973	1,449	120	319	760	24.1
Feb. 28	1,013	120	316	730	18.3
Mar. 31	1,335	199	312	800	24.1
Apr. 30	1,489	290	300	850	26.7
May 31	1,659	222	344	850	4.3
June 30	2,224	1,314	330	880	46.5
July 31	1,376	118	309	770	4.3
Aug. 31	1,186	102	306	715	10.8
Sept. 30	975	118	279	400	12.2

	Hopkinton Lake	Blackwater Reservoir	Everett Lake	Tower Hill Pond	Massabesic Lake
Sept. 30, 1972	5.0	0.2	46.4	137	332
Oct. 31	9.3	.3	49.2	87	380
Nov. 30	52.7	8.1	56.6	75	544
Dec. 31	37.5	1.2	50.9	83	538
Jan. 31, 1973	40.7	2.8	49.8	--	531
Feb. 28	28.6	1.0	42.4	76	493
Mar. 31	44.7	8.1	57.7	132	532
Apr. 30	72.1	26.7	68.5	174	564
May 31	44.6	4.9	54.3	174	751
June 30	232.3	5.5	74.5	176	605
July 31	15.6	.5	47.5	172	521
Aug. 31	19.8	.4	47.0	172	532
Sept. 30	12.9	.3	46.4	156	460

01101000 Parker River at Byfield, Mass.

LOCATION.--Lat 42°45'10", long 70°56'46", Essex County, on left bank 1,400 ft (450 m) downstream from dam, 0.5 mi (0.8 km) south of Byfield, 0.7 mi (1.1 km) upstream from Wheeler Brook, and 5.5 mi (8.8 km) southwest of Newburyport.

DRAINAGE AREA.--21.6 mi^2 (55.9 km^2).

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 23.46 ft (7.151 m) above mean sea level (levels by Massachusetts Department of Public Works).

AVERAGE DISCHARGE.--28 years, 35.8 ft^3/s (1.014 m^3/s), 22.51 in/yr (572 mm/yr).

EXTREMES.--Current year: Maximum discharge, 279 ft^3/s (7.90 m^3/s) Apr. 5 (gage height, 4.29 ft or 1.308 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Sept. 21-23.

Period of record: Maximum discharge, 489 ft^3/s (13.8 m^3/s) Mar. 19, 1968 (gage height, 5.61 ft or 1.710 m); minimum daily, 0.09 ft^3/s (0.003 m^3/s) Sept. 25-30, Oct. 3-6, 1957.

REMARKS.--Records excellent except those below 10 ft^3/s (0.28 m^3/s), which are good. Some regulation at low flow by mill and ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	16	111	70	59	38	56	118	62	36	6.0	3.6
2	6.6	15	113	76	62	39	156	107	58	45	8.4	3.2
3	6.3	19	114	78	127	40	258	96	53	46	11	3.2
4	5.8	21	107	79	170	45	271	88	49	42	13	2.8
5	5.5	23	101	79	163	52	274	80	45	39	15	2.7
6	5.6	23	100	78	145	59	261	73	42	38	14	2.3
7	9.7	23	114	69	131	63	237	68	39	38	13	2.0
8	14	24	123	62	118	71	212	63	36	37	12	2.0
9	19	62	131	54	111	82	189	61	33	34	11	2.0
10	22	112	133	49	94	87	180	63	30	30	10	2.2
11	25	133	132	44	82	85	181	69	27	27	9.8	2.3
12	24	125	125	40	71	82	172	73	25	24	8.4	2.2
13	22	112	116	36	65	81	154	74	25	21	7.4	1.9
14	21	107	108	32	60	78	138	73	24	18	6.9	1.9
15	21	117	99	29	57	74	125	67	24	16	7.7	1.9
16	20	123	85	24	56	70	112	69	23	15	8.4	1.8
17	19	117	86	24	55	71	101	68	23	13	8.4	1.8
18	18	106	80	30	51	76	92	71	22	12	8.0	1.9
19	16	96	75	36	47	80	85	75	20	9.8	7.4	1.8
20	15	106	73	57	47	77	77	75	19	8.7	6.9	1.6
21	14	123	69	72	48	71	71	95	17	12	5.2	1.5
22	14	129	67	70	49	65	66	108	17	11	4.5	1.5
23	14	118	68	91	50	61	62	108	17	11	4.2	1.5
24	12	108	70	119	50	57	58	100	17	9.8	3.8	1.6
25	17	99	71	111	47	54	54	91	17	8.7	3.4	1.6
26	13	105	71	97	46	56	54	83	17	8.0	3.2	1.6
27	12	116	72	88	42	57	73	76	18	7.7	3.0	1.6
28	11	121	72	84	39	59	114	72	19	7.4	3.0	1.8
29	12	115	69	71	------	59	134	70	21	7.2	3.0	1.8
30	15	105	65	76	------	56	130	67	27	6.6	3.8	1.9
31	16	------	62	67	------	53	------	65	------	6.3	3.8	------
TOTAL	452.4	2,619	2,880	1,992	2,142	1,998	4,147	2,466	866	645.2	233.6	61.5
MEAN	14.6	87.3	92.9	64.3	76.5	64.5	138	79.5	28.9	20.8	7.54	2.05
MAX	25	133	133	119	170	87	274	118	62	46	15	3.6
MIN	5.5	15	62	24	39	38	54	61	17	6.3	3.0	1.5
CFSM	.68	4.04	4.30	2.98	3.54	2.99	6.39	3.68	1.34	.96	.35	.09
IN.	.78	4.51	4.96	3.43	3.69	3.44	7.14	4.25	1.49	1.11	.40	.11

CAL YR 1972 TOTAL 22,604.2 MEAN 61.8 MAX 244 MIN 4.0 CFSM 2.86 IN 38.93
WTR YR 1973 TOTAL 20,502.7 MEAN 56.2 MAX 274 MIN 1.5 CFSM 2.60 IN 35.31

01101300 Maple Meadow Brook at Wilmington, Mass.

LOCATION.--Lat 42°32'15", long 71°09'41", Middlesex County, on right bank 10 ft (3 m) upstream from culvert on State Highway 38 and 0.9 mi (1.4 km) southeast of Wilmington.

DRAINAGE AREA.--3.99 mi² (10.33 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 75.71 ft (23.076 m) above mean sea level.

AVERAGE DISCHARGE.--10 years (1963-73), 7.32 ft³/s (0.207 m³/s), 24.91 in/yr (633 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 54 ft³/s (1.53 m³/s) Apr. 2 (gage height, 4.47 ft or 1.362 m); maximum gage height, 4.55 ft (1.387 m) Feb. 3; no flow Oct. 1-6.

Period of record: Maximum discharge, 119 ft³/s (3.37 m³/s) Mar. 19, 1968 (gage height, 5.63 ft or 1.716 m), from rating curve extended above 47 ft³/s (1.33 m³/s) on basis of measurements of flow through culvert at gage heights 5.33 and 5.63 ft (1.625 and 1.716 m); no flow for many days each year.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Water diverted above station for municipal supply of Wilmington since January 1964 (see table below). Recording rain gage at station since March 1963 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1968: 1964-67 (monthly and yearly runoff and diversions). The daily discharge for Dec. 28, 1969, has been revised to 74 ft³/s, superseding figure published in WRD Mass., N.H., R.I., Vt., 1970.

Month	Cfs-days	Mean	Maximum	Minimum	†	Mean‡	Cfsm‡	In‡
December 1969	572.4	18.5	74	1.1	1.93	-	-	--
CAL YR 1969	2,754.40	7.55	74	0	-	9.50	2.38	32.34
WTR YR 1970	2,913.83	7.98	74	0	-	9.74	2.44	33.15

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.72	14	14	7.7	4.1	5.9	19	8.6	30	7.0	1.5
2	0	.80	18	25	9.3	4.8	36	17	7.8	22	8.0	2.0
3	0	1.1	17	18	46	5.2	51	16	6.8	14	8.5	2.2
4	0	1.2	14	13	46	7.1	38	15	6.2	10	9.0	1.8
5	0	1.2	12	13	30	10	34	14	5.8	13	6.6	1.3
6	0	1.2	13	11	19	9.3	32	13	5.4	17	5.6	1.2
7	.42	1.3	28	8.1	14	8.3	24	12	5.1	18	4.8	1.7
8	1.7	1.5	27	6.4	12	8.7	18	12	4.8	12	4.0	2.1
9	1.7	16	22	5.2	12	10	15	13	4.4	8.0	3.5	1.8
10	1.4	25	21	4.7	9.6	9.9	18	16	4.2	6.0	3.2	1.6
11	1.2	19	19	4.5	8.1	9.0	18	17	3.9	7.0	3.6	1.4
12	.99	14	15	4.5	7.1	8.4	16	16	3.6	8.0	4.0	1.3
13	1.0	10	13	4.0	6.4	8.0	14	16	4.5	7.2	4.0	1.3
14	.99	10	13	3.8	6.2	7.5	12	15	8.0	6.2	3.5	1.3
15	.99	18	12	4.1	7.1	6.6	11	13	11	5.4	4.0	1.4
16	.89	18	12	4.2	9.9	6.3	10	13	9.2	5.0	5.0	1.4
17	.94	14	12	4.7	8.7	8.0	13	11	7.2	4.3	5.4	1.2
18	.89	12	9.0	7.0	6.7	13	17	9.6	5.3	3.8	5.0	1.5
19	.80	10	8.0	11	6.2	12	20	9.6	4.5	3.5	4.0	1.8
20	.80	16	7.7	16	6.3	10	19	9.6	3.9	3.2	3.0	2.0
21	.72	26	7.3	18	7.1	8.7	18	16	3.5	3.5	2.6	1.9
22	.68	21	9.0	12	7.8	7.5	18	20	4.0	3.9	2.2	1.7
23	.68	16	14	21	7.8	6.7	17	15	4.4	3.9	1.9	1.4
24	.64	13	13	22	6.8	6.2	17	12	4.5	3.4	1.7	1.1
25	.57	12	12	15	6.2	5.9	17	9.9	4.2	2.9	1.5	.90
26	.57	13	11	11	5.3	6.3	16	8.7	3.7	2.6	1.3	.65
27	.57	19	11	9.8	4.8	8.0	26	8.1	3.5	2.6	1.3	.50
28	.61	17	11	9.6	4.2	8.0	28	7.7	5.5	4.0	1.4	.42
29	.68	14	9.3	10	------	6.8	25	8.7	9.0	6.0	1.4	.35
30	.68	13	7.7	10	------	6.4	21	9.2	20	8.0	1.2	.30
31	.72	------	7.5	9.0	------	6.1	------	9.0	------	10	1.1	------
TOTAL	21.83	355.02	419.5	329.6	328.3	242.8	624.9	401.1	182.5	254.4	119.3	41.02
MEAN	.70	11.8	13.5	10.6	11.7	7.83	20.8	12.9	6.08	8.21	3.85	1.37
MAX	1.7	26	28	25	46	13	51	20	20	30	9.0	2.2
MIN	0	.72	7.3	3.8	4.2	4.1	5.9	7.7	3.5	2.6	1.1	.30
(†)	1.40	1.53	1.33	1.56	1.36	1.21	1.35	1.29	1.21	1.10	1.24	1.26

CAL YR 1972 TOTAL 3,478.84 MEAN 9.51 MAX 55 MIN 0 MEAN‡ 11.0 CFSM‡ 2.76 IN‡ 37.59
WTR YR 1973 TOTAL 3,320.27 MEAN 9.10 MAX 51 MIN 0 MEAN‡ 10.4 CFSM‡ 2.61 IN‡ 35.45

PEAK DISCHARGE (BASE, 45 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	1745	4.55	53				
4-2	2330	4.47	54				

† Diversion, in cubic feet per second, for municipal supply of Wilmington; records furnished by town of Wilmington.

‡ Adjusted for diversion.

NOTE.--No gage-height record June 13 to Aug. 22, Sept. 8-30.

01101500 Ipswich River at South Middleton, Mass.

LOCATION.--Lat 42°34'10", long 71°01'39", Essex County, on right bank in Peabody, 700 ft (200 m) downstream from Boston Street Bridge at South Middleton, 1.3 mi (2.1 km) downstream from Wills Brook, and 2 mi (3 km) south of Middleton.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 44.97 ft (13.707 m) above mean sea level (Massachusetts Geodetic Survey bench mark).

AVERAGE DISCHARGE.--35 years, 70.6 ft³/s (1.999 m³/s), 22.09 in/yr (561 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 413 ft³/s (11.7 m³/s) Apr. 5 (gage height, 5.03 ft or 1.533 m); minimum, 2.7 ft³/s (0.076 m³/s) Sept. 8.
Period of record: Maximum discharge, 833 ft³/s (23.6 m³/s) Mar. 19, 1968 (gage height, 7.09 ft or 2.161 m); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 24, Oct. 1, 1957.

REMARKS.--Records good. Diversions above station for municipal supply of Reading, Lynn, and Peabody (see table below). Occasional regulation by mill above station.

REVISIONS (WATER YEARS).--WSP 1301: 1942(M). WSP 1621: 1938-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	23	149	131	93	67	94	170	106	117	39	22
2	9.7	25	153	155	103	69	322	156	97	124	44	20
3	9.2	34	137	142	299	75	302	144	87	131	56	19
4	8.9	35	128	140	290	87	354	134	79	130	67	18
5	9.9	34	134	145	276	104	400	123	56	130	63	17
6	8.6	32	146	138	253	107	379	114	43	129	51	17
7	27	24	219	129	226	110	325	107	38	114	44	14
8	53	19	200	102	197	122	278	98	33	104	34	6.9
9	44	135	200	93	164	121	242	101	31	91	16	16
10	40	159	203	70	147	120	239	121	29	90	13	15
11	39	132	165	61	121	112	254	126	23	88	28	16
12	27	129	168	55	106	108	222	135	20	79	22	17
13	37	127	157	50	97	106	202	131	22	51	7.2	18
14	35	122	140	45	91	100	135	123	50	55	13	18
15	34	170	134	42	90	92	168	114	46	47	28	20
16	32	156	115	42	91	91	152	117	44	43	32	21
17	30	137	119	45	97	111	139	120	45	38	18	19
18	27	126	117	52	96	149	130	117	42	34	15	22
19	28	117	96	61	78	135	124	124	40	31	13	26
20	23	149	86	106	70	132	110	119	36	27	10	17
21	21	170	84	111	77	126	95	161	33	35	7.5	18
22	20	150	99	108	83	120	87	172	31	41	12	11
23	19	140	111	172	85	111	77	157	27	36	14	21
24	18	132	115	180	96	105	80	147	22	33	7.4	19
25	17	124	117	155	85	98	75	133	17	30	15	18
26	16	141	120	141	83	100	75	126	15	27	14	16
27	18	162	125	116	76	105	139	117	19	28	13	14
28	16	143	125	111	71	99	168	116	26	31	12	13
29	19	133	115	106	------	95	185	117	26	30	12	11
30	24	127	107	103	------	93	180	109	65	38	10	9.6
31	24	------	105	101	------	91	------	107	------	37	15	------
TOTAL	747.3	3,307	4,221	3,201	3,608	3,275	5,882	3,956	1,266	2,008	745.1	509.5
MEAN	24.1	110	136	103	129	106	196	128	42.2	64.8	24.0	17.0
MAX	53	170	219	180	299	149	400	172	106	131	67	26
MIN	8.6	19	84	42	70	67	75	98	15	27	7.2	6.9
(†)	3.94	16.1	14.7	22.2	4.23	9.55	9.07	4.38	16.4	11.7	12.8	6.83

CAL YR 1972 TOTAL 35,362.0 MEAN 96.6 MAX 462 MIN 5.0 MEAN‡ 109 CFSM‡ 2.51 IN‡ 34.22
WTR YR 1973 TOTAL 32,725.9 MEAN 89.7 MAX 400 MIN 6.9 MEAN‡ 101 CFSM‡ 2.33 IN‡ 31.50

† Diversions, in cubic feet per second, for municipal supply of Reading, Lynn, and Peabody; records furnished by municipalities.
‡ Adjusted for diversions.

01102000 Ipswich River near Ipswich, Mass.

LOCATION.--Lat 42°39'35", long 70°53'39", Essex County, on left bank 200 ft (60 m) downstream from Willowdale Dam, 1.5 mi (2.4 km) downstream from Howlett Brook, and 4 mi (6 km) upstream from Ipswich.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--June 1930 to current year. Prior to October 1930, published as "at Willowdale."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.63 ft (6.288 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 201 ft³/s (5.692 m³/s), 22.01 in/yr (559 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 1,290 ft³/s (36.5 m³/s) Apr. 5 (gage height, 5.89 ft or 1.795 m); minimum, about 25 ft³/s (0.71 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 2,680 ft³/s (75.9 m³/s) Mar. 20, 21, 1968 (gage height, 8.41 ft or 2.563 m); minimum, 0.8 ft³/s (0.023 m³/s) Aug. 20, 1965.

Maximum discharge since 1886, that of Mar. 20, 21, 1968.

REMARKS.--Records excellent. Diversions above station for municipal supply of Reading, Lynn, Peabody, Danvers, Salem, and Beverly (see table below).

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1621: 1930-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	74	441	379	259	198	265	524	293	180	76	48
2	29	76	448	426	257	198	450	482	279	224	79	56
3	27	86	458	450	463	201	938	443	260	257	97	62
4	26	95	456	462	665	208	1,200	408	240	269	107	55
5	25	99	458	475	846	226	1,270	377	223	281	111	45
6	25	101	453	470	820	247	1,220	349	207	307	111	41
7	40	99	505	420	755	270	1,130	325	193	298	109	45
8	80	101	560	360	666	295	1,020	302	176	280	105	48
9	105	174	653	310	586	326	890	289	160	256	97	40
10	111	255	677	270	506	345	817	298	145	230	86	34
11	113	382	651	240	432	352	815	310	134	210	68	32
12	111	459	593	212	377	340	787	334	124	190	54	30
13	109	458	554	179	320	324	730	343	122	174	51	29
14	105	446	529	159	294	308	649	340	121	160	45	28
15	101	479	494	146	278	292	568	326	122	152	42	30
16	99	487	446	140	272	280	501	320	126	142	60	31
17	95	483	430	141	247	289	450	307	128	129	72	31
18	90	463	430	151	252	319	414	303	125	118	72	37
19	84	429	387	169	235	341	373	310	121	109	62	48
20	77	449	359	203	232	366	339	318	118	98	50	55
21	69	477	338	224	235	360	330	379	111	95	42	52
22	63	502	320	266	238	335	306	417	113	95	37	44
23	59	508	326	389	237	316	283	447	125	95	33	39
24	55	483	336	446	238	303	268	450	132	91	34	37
25	52	446	353	478	239	285	251	427	129	84	30	39
26	50	429	368	481	227	280	241	395	129	77	27	37
27	48	433	380	425	218	280	284	365	132	72	28	36
28	45	438	382	388	208	280	390	338	134	76	29	33
29	51	442	375	307	------	276	500	324	134	74	37	30
30	65	426	340	292	------	266	547	310	147	74	35	27
31	72	------	342	270	------	260	------	302	------	76	36	------
TOTAL	2,113	10,279	13,842	9,728	10,602	8,966	18,226	11,162	4,703	4,973	1,922	1,199
MEAN	68.2	343	447	314	379	289	608	360	157	160	62.0	40.0
MAX	113	508	677	481	846	366	1,270	524	293	307	111	62
MIN	25	74	320	140	208	198	241	289	111	72	27	27
(†)	6.16	28.1	34.2	10.8	7.76	12.4	12.0	7.25	19.5	14.6	15.7	9.58

CAL YR 1972 TOTAL 108,181 MEAN 296 MAX 1,270 MIN 17 MEAN‡ 315 CFSM‡ 2.54 IN‡ 34.60
WTR YR 1973 TOTAL 97,715 MEAN 268 MAX 1,270 MIN 25 MEAN‡ 283 CFSM‡ 2.28 IN‡ 30.94

† Diversion, in cubic feet per second, for municipal supply of Reading, Lynn, Peabody, Danvers, Salem, and Beverly; records furnished by municipalities.

‡ Adjusted for diversions.

01102500 Aberjona River at Winchester, Mass.

LOCATION.--Lat 42°26'50", long 71°08'22", Middlesex County, on left bank at Winchester, 0.5 mi (0.8 km) upstream from head of Mystic Lakes.

DRAINAGE AREA.--23.3 mi² or 60.3 km² (excludes 1.4 mi² or 3.6 km² drained by Winchester Reservoirs).

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--34 years, 27.4 ft³/s (0.776 m³/s).

EXTREMES.--Current year: Maximum discharge, 303 ft³/s (8.58 m³/s) Apr. 2 (gage height, 12.46 ft or 3.798 m); minimum, 1.9 ft³/s (0.054 m³/s) July 26, 27; minimum daily, 2.9 ft³/s (0.082 m³/s) Oct. 2-4.

Period of record: Maximum discharge, 835 ft³/s (23.6 m³/s) Aug. 19, 1955 (gage height, 13.64 ft or 4.157 m), from rating curve extended above 330 ft³/s (9.35 m³/s); maximum gage height, 14.43 ft (4.398 m) Oct. 7, 1962 (backwater from Upper Mystic Lake); no flow for part of Oct. 10, 12, 1950, caused by pumpage from gage pool; minimum daily discharge, 0.25 ft³/s (0.007 m³/s) Oct. 10, 1950.

Maximum discharge since 1886, that of Aug. 19, 1955.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester, and by wastage and leakage from Winchester Reservoirs. Some regulation by Winchester at dam 1,800 ft (550 m) upstream. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	6.0	87	97	29	18	50	36	30	121	14	28
2	2.9	14	65	83	60	20	255	31	25	73	27	15
3	2.9	18	68	76	274	20	197	30	21	45	32	9.6
4	2.9	11	58	73	190	32	122	32	17	31	113	8.2
5	3.1	9.1	68	63	116	30	148	30	16	55	52	7.4
6	3.1	8.3	93	59	70	28	106	27	15	66	23	18
7	65	7.2	142	46	60	28	78	25	14	31	13	23
8	31	35	122	42	58	41	80	23	13	24	8.5	13
9	20	165	116	33	59	38	71	35	13	19	11	8.0
10	15	81	99	32	52	33	98	45	12	16	8.9	6.6
11	11	56	90	30	47	31	86	39	9.9	33	22	6.9
12	14	41	76	28	42	29	63	32	11	31	27	7.9
13	12	27	66	26	36	24	61	27	44	18	25	5.4
14	8.7	71	46	25	34	25	62	25	29	14	21	5.0
15	12	94	61	23	49	27	51	27	20	13	57	9.0
16	8.0	84	87	23	47	28	46	35	15	14	52	5.8
17	6.9	62	65	25	38	60	46	30	13	12	37	5.1
18	5.7	43	51	30	33	63	40	45	10	10	21	20
19	5.4	33	42	34	29	41	34	34	9.7	10	18	23
20	5.7	92	40	63	28	34	28	35	9.2	16	13	13
21	4.9	61	37	50	28	30	28	95	8.8	27	11	9.1
22	4.9	70	61	56	30	28	27	60	17	16	9.8	6.5
23	4.9	65	59	94	28	26	30	46	20	12	9.3	7.5
24	4.9	49	58	76	30	27	28	43	15	9.5	8.2	6.5
25	4.7	33	56	59	25	25	27	38	12	16	7.4	6.0
26	4.4	75	54	52	24	37	50	33	13	6.1	6.8	5.3
27	3.9	70	57	49	20	39	90	30	22	26	8.9	5.1
28	5.4	58	55	47	19	36	80	33	20	22	7.9	4.8
29	12	49	50	44	------	34	60	40	28	35	6.6	4.4
30	11	49	46	38	------	31	45	27	162	33	5.8	3.9
31	7.2	------	53	35	------	29	------	32	------	18	15	------
TOTAL	307.0	1,536.6	2,128	1,511	1,555	992	2,187	1,120	664.6	872.6	692.1	297.0
MEAN	9.90	51.2	68.6	48.7	55.5	32.0	72.9	36.1	22.2	28.1	22.3	9.90
MAX	65	165	142	97	274	63	255	95	162	121	113	28
MIN	2.9	6.0	37	23	19	18	27	23	8.8	6.1	5.8	3.9

CAL YR 1972 TOTAL 16,537.6 MEAN 45.2 MAX 340 MIN 2.9
WTR YR 1973 TOTAL 13,862.9 MEAN 38.0 MAX 274 MIN 2.9

NOTE.--No gage-height record Apr. 22 to May 16.

01103500 Charles River at Charles River Village, Mass.

LOCATION.--Lat 42°15'22", long 71°15'38", Norfolk County, on right bank 0.3 mi (0.5 km) downstream from highway bridge at Charles River Village, 0.8 mi (1.3 km) downstream from Noanet Brook, and 1.3 mi (2.1 km) northeast of Dover.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 89.76 ft (27.359 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 299 ft³/s (8.468 m³/s), 22.07 in/yr (561 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 1,190 ft³/s (33.7 m³/s) Dec. 10 (gage height, 4.39 ft or 1.338 m); minimum daily, 66 ft³/s (1.87 m³/s) Oct. 6, Sept. 14.

Period of record: Maximum discharge, 3,220 ft³/s (91.2 m³/s) Aug. 23, 1955 (gage height, 9.24 ft or 2.816 m) and Mar. 22, 1968 (gage height, 8.72 ft or 2.658 m); minimum, 0.5 ft³/s (0.014 m³/s) Oct. 24, 1952 (caused by unusual regulation); minimum daily, 0.9 ft³/s (0.025 m³/s) Oct. 24, 1952.

Maximum discharge since flood of 1886, that of August 1955 and March 1968. Flood of March 1936 reached a discharge of 3,170 ft³/s (89.8 m³/s), by computation of flow over dam at site 0.2 mi (0.3 km) above station.

REMARKS.--Records good. Diversions above station for municipal supply of Wellesley and Needham. Occasional diversion since 1951 from Sudbury River basin to Charles River; no diversion during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	141	738	748	480	291	296	592	268	514	202	98
2	83	148	714	774	512	281	494	572	247	561	186	115
3	79	172	705	801	983	289	550	533	230	562	196	120
4	74	139	699	837	942	328	644	485	210	522	201	116
5	70	196	783	843	1,100	358	757	431	194	506	209	103
6	66	192	813	792	1,170	382	764	381	188	461	194	88
7	150	182	978	730	1,130	398	771	345	184	417	167	99
8	180	192	1,010	740	1,040	424	755	316	175	380	140	125
9	195	518	1,130	720	952	447	712	304	159	340	119	134
10	200	579	1,180	650	853	462	704	318	157	278	103	124
11	195	657	1,190	549	751	469	692	347	149	224	105	108
12	190	699	1,140	463	663	467	676	387	141	225	107	87
13	182	696	1,090	394	621	446	668	412	162	203	107	73
14	165	714	1,010	344	558	426	643	428	200	191	107	66
15	158	759	942	316	538	402	607	422	232	187	160	84
16	148	732	917	303	514	376	564	419	250	189	216	89
17	138	741	795	306	461	399	520	392	245	181	219	95
18	127	732	877	322	450	430	479	375	218	165	211	113
19	124	702	788	360	442	445	443	358	185	150	197	122
20	117	759	709	438	426	460	406	343	165	136	172	131
21	117	732	645	453	413	457	379	409	151	143	152	127
22	113	726	660	481	405	432	351	414	141	144	137	116
23	113	726	682	576	404	404	329	433	137	140	123	110
24	106	711	695	609	398	387	341	437	134	135	108	125
25	100	678	718	639	379	356	334	419	128	124	98	155
26	96	702	739	650	362	335	350	387	124	113	87	177
27	96	693	757	633	334	313	412	354	131	126	89	175
28	95	681	754	600	306	310	513	329	147	122	96	156
29	110	684	732	591	------	307	558	316	216	143	107	133
30	120	675	702	566	------	299	586	298	440	220	95	109
31	134	------	681	500	------	290	------	289	------	217	89	------
TOTAL	3,927	16,708	25,963	17,728	17,487	11,870	16,298	12,245	5,708	8,019	4,499	3,473
MEAN	127	557	838	572	625	383	543	395	190	259	145	116
MAX	200	759	1,180	843	1,170	469	771	592	440	562	219	177
MIN	66	141	645	303	306	281	296	289	124	113	87	66
MEAN†	132	562	843	577	631	389	550	402	198	265	152	121
CFSM†	.72	3.05	4.58	3.14	3.43	2.11	2.99	2.18	1.08	1.44	.83	.66
IN.†	.83	3.41	5.28	3.62	3.57	2.44	3.34	2.52	1.20	1.66	.95	.74

CAL YR 1972 TOTAL 171,796 MEAN 469 MAX 1,530 MIN 47 MEAN† 476 CFSM† 2.59 IN† 35.20

WTR YR 1973 TOTAL 143,925 MEAN 394 MAX 1,180 MIN 66 MEAN† 401 CFSM† 2.18 IN† 29.55

† Adjusted for diversions for municipal supply of Wellesley and Needham. Records of diversion furnished by municipalities and Water Division of Metropolitan District Commission.

01104000 Mother Brook at Dedham, Mass.

LOCATION.--Lat 42°15'18", long 71°09'53", Norfolk County, on right bank 100 ft (30 m) upstream from Washington Street Bridge at Dedham and 0.4 mi (0.6 km) downstream from point of diversion from Charles River.

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Concrete control since June 10, 1960. Datum of gage is 0.03 ft (0.009 m) below mean sea level. Dec. 9, 1931, to June 9, 1960, nonrecording gage at site 200 ft (60 m) upstream at same datum.

AVERAGE DISCHARGE.--42 years, 79.0 ft^3/s (2.237 m^3/s).

EXTREMES.--Current year: Maximum discharge, 412 ft^3/s (11.7 m^3/s) Dec. 11 (gage height, 83.73 ft or 25.521 m); minimum, 7.5 ft^3/s (0.212 m^3/s) Sept. 14, 16.

Period of record: Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) Mar. 21, 1968 (gage height, 87.18 ft or 26.572 m); maximum gage height, 92.90 ft (28.316 m) Aug. 24, 1955, from graph based on gage readings; no flow at times.

REMARKS.--Records good. Mother Brook is a diversion from Charles River to Neponset River through Dedham and Hyde Park.

REVISIONS (WATER YEARS).--WSP 1301: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	21	256	256	150	64	79	169	71	165	52	11
2	10	26	248	271	165	59	151	166	61	170	44	11
3	9.9	38	227	265	307	58	173	155	52	170	52	12
4	9.3	39	233	271	319	71	186	145	49	165	43	18
5	8.6	42	278	278	340	86	231	131	43	150	33	19
6	8.1	42	290	251	376	93	241	115	38	110	31	11
7	39	36	258	182	390	96	238	101	34	90	25	11
8	57	47	361	187	376	109	230	88	34	76	18	12
9	57	221	385	168	355	128	220	85	31	64	14	15
10	61	228	402	171	307	133	221	92	31	52	12	14
11	56	212	409	159	256	134	228	98	25	42	10	11
12	50	220	400	128	194	138	212	110	22	41	10	13
13	47	228	392	102	222	135	202	113	33	38	9.5	9.8
14	33	250	356	79	186	123	192	117	43	35	8.9	8.2
15	32	292	323	64	177	114	181	118	50	32	23	12
16	25	269	322	61	161	108	167	124	55	31	46	9.3
17	24	254	244	65	147	119	152	113	61	31	47	11
18	21	248	259	75	100	133	140	106	52	26	43	21
19	21	237	264	90	126	136	129	101	42	21	39	24
20	21	269	256	125	118	136	115	94	32	21	32	20
21	18	273	231	139	109	134	106	126	25	29	25	21
22	15	251	229	136	107	133	90	125	24	22	21	17
23	13	243	237	177	106	124	89	121	24	18	18	15
24	15	237	233	181	104	110	101	121	20	16	14	16
25	14	227	231	188	96	100	92	118	19	14	12	21
26	12	234	234	191	89	95	98	112	20	12	10	26
27	11	228	244	189	83	90	124	102	22	13	9.7	28
28	11	208	243	183	73	81	148	93	27	15	9.7	26
29	17	205	238	206	------	78	160	90	38	28	11	21
30	22	216	226	139	------	76	166	81	126	52	10	17
31	20	------	222	163	------	74	------	78	------	52	11	------
TOTAL	767.6	5,541	8,842	5,142	5,538	3,270	4,862	3,508	1,204	1,801	743.8	481.3
MEAN	24.8	185	285	166	198	105	162	113	40.1	58.1	24.0	16.0
MAX	61	292	409	278	390	138	241	169	126	170	52	28
MIN	8.1	21	222	61	73	58	79	78	19	12	8.9	8.2

CAL YR 1972 TOTAL 51,130.0 MEAN 140 MAX 446 MIN 1.7
WTR YR 1973 TOTAL 41,700.7 MEAN 114 MAX 409 MIN 8.1

01104200 Charles River at Wellesley, Mass.

LOCATION.--Lat 42°18'59", long 71°13'42", Norfolk County, on left bank at east limits of Wellesley, 30 ft (9 m) upstream from a horseshoe-shaped dam and 50 ft (15 m) upstream from bridge on State Highway 9.

DRAINAGE AREA.--211 mi^2 (546 km^2).

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 67.92 ft (20.702 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 340 ft^3/s (9.629 m^3/s), 21.88 in/yr (556 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 1,210 ft^3/s (34.3 m^3/s) Nov. 10 (gage height, 4.96 ft or 1.512 m); minimum not determined; minimum daily, 70 ft^3/s (1.98 m^3/s) Oct. 6.

Period of record: Maximum discharge, 2,410 ft^3/s (68.3 m^3/s) Mar. 21, 1968 (gage height, 6.20 ft or 1.890 m); no flow Sept. 15, Oct. 6, 1959 (caused by closing of gates at dam at gage); minimum daily discharge, 1.0 ft^3/s (0.028 m^3/s) Aug. 24, 31, Sept. 8, 1965.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow affected by diversions for municipal supply of Wellesley, Needham, and Dedham, by diversion to Mother Brook (see sta. 01104000), and at times by diversion from Sudbury River basin. No diversion from Sudbury River basin during year. Occasional regulation at dam 0.2 mi (0.3 m) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	135	612	658	408	285	300	478	229	467	250	99
2	86	153	606	671	467	270	484	473	199	462	241	96
3	80	179	573	664	650	270	518	467	191	473	268	102
4	76	179	567	677	820	300	554	429	179	456	241	118
5	72	187	664	684	880	320	638	397	156	451	241	135
6	70	191	690	632	900	333	658	352	145	434	237	102
7	130	183	783	500	900	333	658	314	149	392	211	99
8	180	203	805	462	860	362	651	295	142	362	179	109
9	170	560	850	451	820	382	632	291	131	328	156	121
10	165	567	888	478	750	382	645	300	131	295	138	121
11	160	536	903	451	650	387	632	309	118	250	128	109
12	160	560	895	403	550	397	593	333	109	241	109	93
13	190	567	888	352	550	387	548	328	135	207	99	79
14	167	593	858	309	510	377	530	333	163	191	102	71
15	149	671	805	282	520	362	506	337	167	191	167	95
16	149	645	775	268	500	342	478	352	183	195	229	86
17	135	612	593	268	420	367	451	337	183	183	207	75
18	125	599	586	277	390	377	424	319	179	175	203	96
19	118	580	612	314	390	357	403	300	167	163	187	118
20	112	638	612	372	380	367	367	282	153	167	167	105
21	112	638	560	357	410	372	352	352	135	199	145	105
22	109	606	560	403	400	352	328	333	128	171	131	99
23	109	580	580	495	360	342	309	333	131	160	125	88
24	105	573	580	500	350	337	328	337	118	149	115	91
25	99	560	580	506	340	323	304	328	112	142	102	112
26	96	593	599	518	340	319	319	314	112	128	88	131
27	93	599	612	518	320	304	377	295	125	142	85	142
28	96	580	625	495	300	300	445	291	142	160	79	135
29	112	567	599	518	------	295	451	277	179	207	91	118
30	125	560	580	440	------	291	467	259	382	342	91	96
31	125	------	567	445	------	286	------	250	------	286	91	------
TOTAL	3,767	14,394	21,007	14,368	15,135	10,478	14,350	10,395	4,773	8,169	4,903	3,146
MEAN	122	480	678	463	541	338	478	335	159	264	158	105
MAX	190	671	903	684	900	397	658	478	382	473	268	142
MIN	70	135	560	268	300	270	300	250	109	128	79	71
MEAN†	156	674	973	640	750	454	652	460	213	334	195	132
CFSM†	.74	3.19	4.61	3.03	3.55	2.15	3.09	2.18	1.01	1.58	.92	.63
IN.†	.85	3.57	5.32	3.50	3.70	2.48	3.45	2.52	1.13	1.83	1.06	.70

CAL YR 1972 TOTAL 149,651 MEAN 409 MAX 1,330 MIN 64 MEAN† 560 CFSM† 2.65 IN† 36.13
WTR YR 1973 TOTAL 124,885 MEAN 342 MAX 903 MIN 70 MEAN† 468 CFSM† 2.22 IN† 30.09

† Adjusted for diversion to Mother Brook and diversions for municipal supply of Wellesley, Needham, and Dedham. Records of diversion furnished by Water Division of Metropolitan District Commission and by municipalities.

NOTE.--No gage-height record Oct. 1-12, Feb. 3 to Mar. 5.

01104500 Charles River at Waltham, Mass.

LOCATION.--Lat 42°22'20", long 71°14'03", Middlesex County, on right bank 800 ft (250 m) downstream from Moody Street Bridge in Waltham and 0.3 mi (0.5 km) upstream from Beaver Brook.

DRAINAGE AREA.--227 mi² (588 km²) excludes 23.6 mi² (61.1 km²) drained by Stony Brook, from which flow is diverted for municipal supply of Cambridge.

PERIOD OF RECORD.--October 1903 to October 1909 (figures of average weekly discharge, equivalent to records of unadjusted discharge at present site), August 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.02 ft (6.102 m) above mean sea level. Prior to July 10, 1904, at dam 700 ft (200 m) upstream and July 10, 1904, to Oct. 2, 1909, at dam 0.7 mile (1.1 km) downstream at different datums; discharge computed from flow over dam and through wheels and gates of Boston Manufacturing Co. and Waltham Bleachery, respectively.

AVERAGE DISCHARGE.--42 years (1931-73), 376 ft³/s (10.65 m³/s), 22.49 in/yr (571 mm/yr), adjusted for diversion, wastage, and leakage.

EXTREMES.--Current year: Maximum discharge, 1,630 ft³/s (46.2 m³/s) Jan. 7 (gage height, 4.04 ft or 1.231 m), caused by unusual regulation; minimum, 47 ft³/s (1.33 m³/s) Jan. 7, caused by unusual regulation; minimum daily, 75 ft³/s (2.12 m³/s) Oct. 6.

Period of record: Maximum discharge, 2,670 ft³/s (75.6 m³/s) Mar. 22, 1968 (gage height, 5.15 ft or 1.570 m); maximum gage height, 5.39 ft (1.643 m) Mar. 22, 1968 (backwater from debris); minimum discharge, 0.1 ft³/s (0.003 m³/s) Oct. 1, 12, 1943; minimum daily, 0.2 ft³/s (0.006 m³/s) Oct. 4, 1943.

Maximum discharge since 1886, that of Mar. 22, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow affected at times by wastage from Stony Brook Reservoir, wastage and leakage from Norumbega Reservoir, diversion at times prior to 1963 from Lake Cochituate and at times since 1951 from Sudbury River basin, diversion to Mother Brook (see sta. 01104000), and diversions for municipal supply of Wellesley, Needham, and Dedham, all above station. Some regulation by mills upstream. No diversion from Sudbury River basin during year. Low flow completely regulated by Boston Edison Co. powerplant above station prior to 1954.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 851: Drainage area. WSP 971: 1942.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	141	655	716	450	311	306	510	265	551	254	119
2	92	165	611	728	551	301	561	500	240	584	250	112
3	86	210	578	746	1.070	300	620	475	229	545	265	119
4	82	194	545	746	1.010	329	652	440	216	505	236	129
5	78	194	694	734	966	343	753	395	200	556	223	165
6	75	194	746	672	981	339	742	359	188	540	220	151
7	200	188	928	556	984	352	710	326	182	470	203	144
8	300	223	915	545	953	394	689	302	176	405	179	131
9	210	812	941	480	894	419	657	306	179	359	160	131
10	200	716	941	495	802	424	703	326	182	322	139	131
11	190	639	934	480	712	424	685	338	160	287	151	124
12	240	595	895	435	612	421	634	368	146	310	151	108
13	220	589	869	382	614	404	593	355	191	254	126	95
14	195	655	843	346	552	392	563	355	216	220	121	87
15	177	722	794	322	563	374	540	359	200	210	194	108
16	171	683	794	306	536	357	515	391	213	206	247	103
17	169	639	617	302	463	412	475	373	216	194	226	99
18	151	600	606	306	419	442	445	355	213	185	216	136
19	142	573	617	322	422	409	420	334	197	170	210	151
20	136	710	617	395	416	402	386	318	176	173	191	134
21	131	688	573	364	444	397	359	455	162	229	168	126
22	130	633	595	420	428	381	342	415	166	191	154	124
23	133	589	600	573	396	360	318	400	162	168	141	119
24	130	567	589	597	385	347	330	386	142	157	129	117
25	123	551	600	581	371	333	306	373	134	149	117	131
26	115	528	611	574	366	330	314	355	131	139	108	149
27	113	617	628	561	344	312	395	334	157	223	103	162
28	112	589	639	550	321	299	495	322	170	194	103	154
29	134	556	617	581	------	290	490	318	265	216	103	144
30	141	545	600	497	------	284	490	287	470	326	108	124
31	139	------	595	494	------	280	------	287	------	283	106	------
TOTAL	4.613	15.405	21.787	15.806	17.025	11.162	15.488	11.417	5.944	9.321	5.302	3.827
MEAN	149	514	703	510	608	360	516	368	198	301	171	128
MAX	300	812	941	746	1.070	442	753	510	470	584	265	165
MIN	75	141	545	302	321	280	306	287	131	139	103	87
MEAN†	183	703	993	685	817	476	690	493	252	371	207	155
CFSM†	.81	3.10	4.37	3.02	3.60	2.10	3.04	2.17	1.11	1.63	.91	.68
IN.†	.93	3.46	5.05	3.48	3.75	2.42	3.39	2.51	1.24	1.88	1.05	.76

CAL YR 1972 TOTAL 164.324 MEAN 449 MAX 1.630 MIN 71 MEAN† 598 CFSM† 2.63 IN† 35.89
WTR YR 1973 TOTAL 137.097 MEAN 376 MAX 1.070 MIN 75 MEAN† 500 CFSM† 2.20 IN† 29.91

† Adjusted for diversion to Mother Brook, diversions for municipal supply of Wellesley, Needham, and Dedham, wastage from Stony Brook Reservoir, and wastage and leakage from Norumbega Reservoir. Records of diversions, wastage, and leakage furnished by Water Division of Metropolitan District Commission and by municipalities.

NOTE.--No gage-height record Oct. 1-12.

01105000 Neponset River at Norwood, Mass.

LOCATION.--Lat 42°10'39", long 71°12'05", Norfolk County, on left bank 200 ft (60 m) upstream from Pleasant Street Bridge, 200 ft (60 m) downstream from Penn Central Railroad bridge, 0.45 mi (0.72 km) downstream from Hawes Brook, and 0.5 mi (0.8 km) south of Norwood.

DRAINAGE AREA.--35.2 mi^2 (91.2 km^2).

PERIOD OF RECORD.--October 1939 to current year. October 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 44.04 ft (13.423 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--34 years, 52.4 ft^3/s (1.484 m^3/s).

EXTREMES.--Current year: Maximum discharge, 432 ft^3/s (12.2 m^3/s) Feb. 3 (gage height, 8.27 ft or 2.521 m, at upstream side of railroad bridge); minimum daily, 10 ft^3/s (0.28 m^3/s) July 28.

Period of record: Maximum discharge, 1,490 ft^3/s (42.2 m^3/s) Aug. 19, 1955 (gage height, 14.65 ft or 4.465 m, from floodmarks); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Oct. 20, 1963.

Maximum discharge since 1886, that of Aug. 19, 1955. Flood of July 24, 1938, reached a stage of 11.05 ft (3.368 m), from floodmarks.

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Several diversions above station for municipal and industrial use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	40	133	163	82	48	54	86	47	157	35	30
2	16	43	128	200	124	48	156	77	40	118	54	31
3	12	59	111	161	368	50	153	69	35	84	64	25
4	12	55	100	141	288	72	134	65	31	65	48	26
5	12	51	185	133	192	80	158	59	24	65	48	23
6	14	45	224	122	158	69	140	53	24	68	45	27
7	73	39	298	104	133	66	111	49	27	49	18	54
8	70	64	245	86	128	80	95	46	24	41	21	47
9	49	205	218	71	122	92	86	53	21	35	18	33
10	35	178	200	65	106	84	119	68	30	31	18	26
11	26	114	170	62	94	76	137	85	27	34	23	22
12	31	94	154	54	78	72	119	104	20	41	35	24
13	28	78	143	51	74	67	97	96	31	35	25	23
14	25	117	131	53	71	62	84	73	51	29	13	22
15	26	166	125	53	94	59	78	61	42	35	50	44
16	22	141	130	53	101	60	72	72	29	40	69	48
17	18	106	117	53	84	69	67	65	23	24	62	34
18	17	90	97	55	72	77	62	60	21	18	43	62
19	21	82	87	60	69	64	62	55	18	15	33	64
20	24	138	83	83	61	53	58	52	18	13	26	58
21	23	145	90	86	64	49	53	103	18	18	21	40
22	24	122	123	77	66	46	53	95	15	31	19	32
23	28	104	148	121	66	46	53	75	12	22	21	54
24	26	91	155	127	63	42	59	62	11	14	22	57
25	20	86	143	102	60	42	55	54	12	13	21	64
26	19	126	131	84	59	47	62	49	13	11	23	51
27	21	138	128	75	52	51	112	48	19	11	27	39
28	24	115	130	72	50	48	146	52	32	10	26	33
29	42	100	114	120	------	43	133	56	59	33	24	28
30	52	90	104	121	------	42	106	47	150	78	17	33
31	47	------	103	104	------	40	------	50	------	62	19	------
TOTAL	876	3,022	4,448	2,912	2,979	1,844	2,874	2,039	924	1,300	988	1,154
MEAN	28.3	101	143	93.9	106	59.5	95.8	65.8	30.8	41.9	31.9	38.5
MAX	73	205	298	200	368	92	158	104	150	157	69	64
MIN	12	39	83	51	50	40	53	46	11	10	13	22

CAL YR 1972 TOTAL 29,327.7 MEAN 80.1 MAX 375 MIN 7.0
WTR YR 1973 TOTAL 25,360.0 MEAN 69.5 MAX 368 MIN 10

01105500 East Branch Neponset River at Canton, Mass.

LOCATION.--Lat 42°09'16", long 71°08'47", Norfolk County, on right bank 100 ft (30 m) downstream from Washington Street Bridge at Canton, 200 ft (60 m) downstream from Forge Pond Dam, and 900 ft (250 m) downstream from Massapoag Brook.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.18 ft (24.439 m) above mean sea level (Massachusetts Department of Public Works bench mark).

AVERAGE DISCHARGE.--21 years, 51.2 ft³/s (1.450 m³/s).

EXTREMES.--Current year: Maximum discharge, 371 ft³/s (10.5 m³/s) June 30 (gage height, 3.67 ft or 1.119 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 14.

Period of record: Maximum discharge, 1,790 ft³/s (50.7 m³/s) Aug. 19, 1955 (gage height, 8.18 ft or 2.493 m), from rating curve extended above 690 ft³/s (19.5 m³/s); minimum daily, 0.6 ft³/s (0.017 m³/s) July 7, Sept. 1, 1957.

REMARKS.--Records good. Flow regulated by Forge, Bolivar, Massapoag, and Reservoir Ponds, and other ponds above station. Diversion above station for municipal supply of Canton and Stoughton.

REVISIONS.--WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	39	127	165	73	43	48	57	45	105	65	46
2	22	41	116	155	102	44	126	52	40	107	67	37
3	21	61	100	122	270	46	103	53	36	75	85	29
4	21	58	92	114	173	62	85	54	35	55	60	28
5	21	55	168	116	133	70	116	52	34	70	48	32
6	22	53	162	105	121	62	93	50	32	80	38	44
7	60	49	221	88	115	57	82	48	30	87	32	65
8	78	59	156	87	114	66	79	43	28	73	25	43
9	50	196	161	76	113	76	68	56	27	60	21	31
10	37	142	152	73	102	58	113	94	27	47	20	25
11	29	104	138	69	92	43	139	101	25	43	24	22
12	30	89	126	66	88	45	110	130	22	54	36	21
13	37	83	126	61	79	48	95	102	34	45	27	19
14	33	114	120	57	76	46	87	77	56	40	22	18
15	32	183	116	58	99	45	81	57	39	57	53	34
16	30	133	138	57	101	45	79	66	28	73	88	32
17	29	111	133	57	80	59	73	64	24	57	56	25
18	27	101	112	59	73	70	65	64	23	40	43	43
19	32	96	105	62	67	57	48	66	22	33	36	77
20	38	152	105	80	66	50	52	62	21	32	34	50
21	32	143	105	72	68	47	44	109	23	37	30	36
22	30	112	133	64	67	46	43	107	25	38	27	30
23	30	101	149	113	62	47	42	88	27	32	27	43
24	30	94	140	100	57	47	55	75	27	28	25	46
25	27	91	124	80	51	45	49	67	25	26	24	66
26	26	118	119	72	49	49	52	63	42	24	21	50
27	25	125	120	69	46	56	107	59	68	23	21	38
28	24	100	115	69	43	48	115	57	68	22	24	33
29	43	93	106	125	------	45	83	61	80	40	21	29
30	56	88	99	120	------	41	63	37	240	90	20	27
31	45	------	103	95	------	44	------	39	------	58	29	------
TOTAL	1,042	2,984	3,987	2,706	2,580	1,607	2,395	2,110	1,253	1,731	1,149	1,119
MEAN	33.6	99.5	129	87.3	92.1	51.8	79.8	68.1	41.8	55.8	37.1	37.3
MAX	78	196	221	165	270	76	139	130	240	185	88	77
MIN	21	39	92	57	43	41	42	37	21	22	20	18

CAL YR 1972 TOTAL 26,586 MEAN 72.6 MAX 320 MIN 15
WTR YR 1973 TOTAL 24,663 MEAN 67.6 MAX 270 MIN 18

01105557 Furnace Brook at Quincy, Mass.

LOCATION.--Lat 42°15'28", long 71°00'33", Norfolk County, on left bank 20 ft (6 m) upstream from Hancock Street Bridge at Quincy, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--3.83 mi² (9.92 km²), based on storm-sewer system.

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (2 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 150 ft³/s (4.25 m³/s) July 29 (gage height, 4.03 ft or 1.228 m); minimum, 0.11 ft³/s (0.003 m³/s) June 21, caused by regulation from unknown source; minimum daily, 0.36 ft³/s (0.010 m³/s) June 19.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.4	20	18	8.0	3.0	12	5.8	3.2	9.7	5.8	3.0
2	1.1	5.4	11	12	27	4.3	25	5.4	2.4	4.5	4.9	1.7
3	.95	5.2	12	9.1	31	3.8	14	4.7	2.1	2.8	4.9	3.2
4	.85	2.8	17	9.7	19	7.5	16	4.3	1.8	3.6	2.5	7.0
5	.85	3.0	28	7.8	13	4.5	16	3.8	1.7	10	1.7	5.8
6	.93	2.7	26	6.8	11	3.9	12	3.8	1.7	5.2	1.3	6.8
7	12	3.0	26	5.6	9.4	3.8	10	3.9	1.6	3.2	1.0	4.7
8	2.5	14	18	4.3	9.1	7.8	8.8	3.6	1.3	2.1	.93	3.4
9	1.4	36	18	3.9	8.6	5.8	8.0	7.0	3.2	1.6	.85	2.7
10	1.4	20	14	3.6	7.0	4.9	18	4.9	1.3	1.1	1.4	2.4
11	1.4	13	12	3.6	6.3	4.3	11	12	.93	4.3	13	2.2
12	3.8	11	10	3.0	5.6	4.3	8.8	7.5	.77	6.8	5.6	1.8
13	2.0	8.6	9.4	3.0	5.6	4.1	8.0	5.4	8.6	2.2	2.7	1.2
14	1.8	27	8.6	2.7	5.2	3.9	7.3	4.7	2.1	1.4	1.7	1.3
15	3.4	24	7.8	2.7	12	3.8	6.5	5.2	1.1	4.1	12	5.6
16	2.4	16	15	2.5	7.3	3.6	6.8	7.3	.77	2.0	5.4	1.8
17	2.5	13	8.3	2.5	5.6	11	6.0	4.7	.68	1.4	3.8	1.4
18	2.2	10	7.3	2.7	4.5	6.5	6.0	8.0	.47	1.1	2.8	11
19	4.1	9.1	6.5	3.2	4.3	5.2	5.6	4.7	.36	.93	2.4	4.1
20	1.8	27	7.5	6.3	4.3	4.5	5.4	5.2	.54	2.5	2.1	2.5
21	1.7	14	6.5	4.5	4.5	4.1	4.7	18	.39	3.6	1.8	1.7
22	1.6	12	18	4.5	4.7	4.5	5.2	8.0	.36	1.2	1.6	1.4
23	1.8	11	13	12	4.3	5.2	7.9	6.3	.47	.85	1.4	3.8
24	2.0	10	12	6.3	3.9	4.9	5.8	5.2	.43	.61	1.2	3.9
25	1.7	10	10	5.4	3.4	4.7	3.9	4.5	.39	.54	1.0	3.2
26	1.4	18	9.7	4.7	3.4	6.3	7.8	4.3	9.7	.54	1.3	2.2
27	1.3	11	10	4.5	3.4	4.7	14	4.1	5.4	.50	1.8	1.2
28	1.8	7.9	8.6	5.9	3.0	4.1	11	5.4	2.5	.47	1.2	1.0
29	6.8	7.1	7.3	26	------	3.4	8.0	4.1	4.9	12	1.0	.85
30	2.0	9.4	6.8	13	------	3.2	6.5	3.6	14	3.9	2.5	.85
31	1.4	------	12	10	------	3.2	------	4.3	------	1.6	5.6	------
TOTAL	72.18	362.6	396.3	209.8	234.4	148.8	286.0	179.7	75.16	96.34	97.18	93.70
MEAN	2.33	12.1	12.8	6.77	8.37	4.80	9.53	5.80	2.51	3.11	3.13	3.12
MAX	12	36	28	26	31	11	25	18	14	12	13	11
MIN	.85	1.4	6.5	2.5	3.0	3.0	3.9	3.6	.36	.47	.85	.85
CFSM	.61	3.16	3.34	1.77	2.19	1.25	2.49	1.51	.66	.81	.82	.81
IN.	.70	3.52	3.85	2.04	2.28	1.45	2.78	1.75	.73	.94	.94	.91

WTR YR 1973 TOTAL 2,252.16 MEAN 6.17 MAX 36 MIN .36 CFSM 1.61 IN 21.87

PEAK DISCHARGE (BASE, 64 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1930	3.43	99	7-5	1300	3.68	107
2-2	2200	3.67	125	7-29	1745	4.03	150
5-21	0100	3.73	113	8-11	1745	3.90	133
6-26	1230	3.46	84	9-18	1445	3.59	97

01105585 Town River at Quincy, Mass.

LOCATION.--Lat 42°14'52", long 70°59'52", Norfolk County, on left bank 200 ft (61 m) downstream from Miller Stile Road at Quincy and 0.8 mi (1.3 km) upstream from Town River Bay.
DRAINAGE AREA.--4.25 mi² (11.01 km²).
PERIOD OF RECORD.--September 1972 to September 1973.
GAGE.--Water-stage recorder. Altitude of gage is 5 ft (1.5 m), from topographic map.
EXTREMES.--September 11-30, 1972: Maximum discharge, 277 ft³/s (7.84 m³/s) Sept. 22 (gage height, 5.77 ft or 1.759 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 17, 18, 19.
Water year 1973: Maximum discharge, 378 ft³/s (10.7 m³/s) Aug. 11 (gage height, 6.83 ft or 2.082 m), from rating curve extended above 210 ft³/s (5.95 m³/s); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 9, 11.
REMARKS.--Records good. Diurnal fluctuation caused by plant above station. Occasional regulation by Old Quincy Reservoir 2.2 mi (3.5 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, SEPT. 11-30, 1972

DAY		DAY	
11	··1.6	21	3.7
12	1.6	22	·31
13	2.3	23	4.6
14	6.7	24	4.0
15	1.6	25	3.7
16	1.4	26	3.5
17	1.3	27	6.0
18	1.3	28	5.7
19	16	29	4.4
20	5.9	30	3.7

PEAK DISCHARGE (BASE, 200 ft³/s).--Sept. 22 (0115) 277 ft³/s (5.77 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.5	34	30	6.2	4.2	26	11	2.9	29	12	7.0
2	2.8	8.5	15	17	49	4.3	37	11	2.9	14	9.1	6.2
3	2.9	7.4	14	15	33	4.3	12	12	2.6	14	6.7	11
4	2.8	4.2	20	17	19	11	26	11	2.5	15	6.2	20
5	2.8	4.7	48	15	17	5.0	20	7.5	2.5	38	6.7	8.2
6	2.9	5.2	48	12	16	4.8	12	3.1	6.1	14	6.5	14
7	25	6.1	30	8.0	15	4.9	11	2.8	10	12	6.5	7.2
8	3.3	36	24	5.8	16	12	10	2.8	8.8	11	5.0	6.0
9	1.9	59	27	6.3	15	5.8	9.7	11	12	7.0	1.7	6.2
10	1.8	20	22	6.2	12	5.1	30	4.2	7.5	2.5	1.6	5.7
11	2.0	17	19	6.1	9.8	4.9	12	20	7.1	10	48	5.5
12	6.3	16	17	5.9	9.6	5.2	11	8.1	7.1	8.8	17	5.0
13	2.4	15	18	5.8	8.4	4.7	10	4.1	20	2.8	11	5.0
14	2.1	55	16	5.8	5.1	4.7	9.4	8.6	3.7	2.5	10	5.5
15	3.6	28	16	5.8	17	4.8	9.4	14	2.8	7.5	34	12
16	2.2	20	29	5.7	5.8	4.7	9.4	16	2.6	5.2	6.7	5.0
17	2.2	18	16	5.8	5.2	13	9.1	11	2.4	4.7	5.2	4.7
18	1.9	18	11	6.1	4.8	5.9	7.2	13	2.3	4.7	7.5	22
19	5.7	19	7.8	6.0	4.9	5.1	3.2	4.0	2.3	4.7	9.4	5.7
20	2.3	54	11	8.7	5.0	4.9	2.9	6.1	2.3	5.2	9.4	5.0
21	2.0	21	11	6.0	5.1	4.7	2.9	27	2.3	9.1	7.5	4.5
22	2.1	18	40	8.0	5.0	4.9	3.1	10	2.9	4.5	4.7	4.5
23	2.1	17	18	21	4.9	5.6	8.9	13	2.5	4.3	4.5	7.5
24	2.4	11	14	6.9	4.6	4.7	5.3	12	2.4	4.2	4.3	6.0
25	2.3	6.3	11	6.3	4.4	4.8	4.2	3.8	2.3	4.2	4.2	4.7
26	2.1	24	11	6.0	4.6	7.2	15	7.5	33	4.2	4.0	4.7
27	2.0	8.0	13	5.9	4.2	7.1	26	8.7	8.9	4.3	4.3	4.5
28	2.7	8.4	16	6.[illegible]	4.2	7.7	13	5.2	8.0	4.3	4.2	4.5
29	13	11	14	38	------	7.6	8.8	5.8	22	26	5.0	4.3
30	4.5	17	14	8.6	------	7.7	12	7.3	46	6.5	6.5	5.5
31	2.9	------	24	6.9	------	7.7	------	4.7	------	5.0	10	------
TOTAL	117.9	555.3	628.8	314.5	310.8	189.0	374.5	286.3	240.7	289.2	279.4	217.6
MEAN	3.80	18.5	20.3	10.1	11.1	6.10	12.5	9.24	8.02	9.33	9.01	7.25
MAX	25	59	48	38	49	13	37	27	46	38	48	22
MIN	1.8	2.5	7.8	5.7	4.2	4.2	2.9	2.8	2.3	2.5	1.6	4.3
CFSM	.89	4.35	4.78	2.38	2.61	1.44	2.94	2.17	1.89	2.20	2.12	1.71
IN.	1.03	4.86	5.50	2.75	2.72	1.65	3.28	2.51	2.11	2.53	2.45	1.90

WTR YR 1973 TOTAL 3,804.0 MEAN 10.4 MAX 59 MIN 1.6 CFSM 2.45 IN 33.30

PEAK DISCHARGE (BASE, 200 ft³/s)

NOTE.--No gage-height record June 17-26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	2130	5.10	219	7-5	1245	6.37	332
5-21	0045	5.25	231	7-29	1745	5.90	289
6-26	-	†5.02	213	8-11	1815	6.83	378
6-30	2315	5.12	221				

† From peak-stage indicator.

01105600 Old Swamp River near South Weymouth, Mass.

LOCATION.--Lat 42°11'25", long 70°56'43", Norfolk County, on left bank between divided lanes of State Highway 3 and 128, 100 ft (30 m) downstream from unnamed tributary entering from left, 0.4 mi (0.6 km) upstream from Whitmans Pond, and 1.2 mi (1.9 km) north of South Weymouth.

DRAINAGE AREA.--4.29 mi² (11.11 km²).

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 70 ft (21 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 9.87 ft³/s (0.280 m³/s), 31.24 in/yr (793 mm/yr).

EXTREMES.--Current year: Maximum discharge, 111 ft³/s (3.14 m³/s) Feb. 2 (gage height, 3.77 ft or 1.149 m); minimum, 1.2 ft³/s (0.034 m³/s) Aug. 31.

Period of record: Maximum discharge, 566 ft³/s (16.0 m³/s) Mar. 18, 1968 (gage height, 5.22 ft or 1.591 m); maximum gage height, 5.35 ft (1.631 m) Feb. 15, 1971 (ice jam); minimum discharge, 0.11 ft³/s (0.003 m³/s) Sept. 5, 6, 9, 10, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	8.0	33	42	9.1	6.9	11	10	6.4	39	7.0	3.3
2	2.8	8.3	25	34	26	6.9	43	8.5	5.4	17	8.5	2.0
3	4.6	12	16	20	93	6.9	29	8.2	4.8	8.3	9.0	3.8
4	4.4	10	14	16	37	13	19	7.6	4.4	8.6	6.0	5.2
5	3.0	9.5	52	16	20	14	26	7.0	4.2	13	4.0	3.8
6	2.3	9.2	50	13	15	11	17	6.5	4.2	9.5	3.1	6.6
7	9.1	8.3	82	10	13	9.8	12	6.0	5.4	5.9	2.5	6.1
8	8.8	13	37	8.0	11	12	10	5.8	4.8	4.6	2.2	3.8
9	5.9	68	30	6.6	12	14	9.2	11	5.4	3.6	1.9	2.8
10	4.4	49	24	5.8	9.4	11	10	16	5.9	3.3	1.7	2.5
11	3.5	21	19	5.4	8.9	9.5	18	15	4.4	12	10	1.9
12	4.2	14	15	5.1	8.3	9.2	13	20	3.8	11	18	1.8
13	5.2	12	15	4.9	8.0	8.9	10	11	7.4	6.4	7.0	1.7
14	4.4	27	14	4.8	8.0	8.0	8.2	8.0	6.6	7.7	4.0	1.6
15	4.8	65	13	5.0	16	7.4	7.4	10	4.6	8.3	19	6.1
16	4.2	37	25	5.4	15	7.4	6.9	12	3.5	5.4	26	3.6
17	4.4	26	23	5.7	10	12	6.4	10	3.1	4.2	10	2.5
18	4.0	22	16	6.1	9.1	12	6.1	11	2.6	3.2	6.3	6.9
19	6.4	15	11	6.4	8.3	10	5.9	13	2.6	2.8	4.6	7.4
20	8.0	34	11	8.6	7.7	9.2	5.4	9.4	2.5	2.5	3.8	4.4
21	6.9	43	13	8.9	8.3	8.3	5.0	21	2.2	4.4	3.0	3.1
22	7.2	24	40	7.2	8.9	8.0	5.0	17	2.0	4.7	2.3	2.6
23	6.4	16	52	28	8.9	8.0	5.0	12	2.2	3.0	2.2	5.4
24	6.4	11	42	21	8.3	7.7	7.6	9.5	2.1	2.5	2.1	5.0
25	5.9	12	29	12	7.4	7.4	6.5	7.6	2.0	2.2	1.9	6.3
26	5.4	23	22	9.8	7.2	8.3	15	6.6	9.2	1.9	1.7	5.2
27	5.2	28	19	8.6	6.6	9.5	30	6.0	7.7	1.7	1.6	3.8
28	5.4	18	17	8.6	6.6	8.6	22	8.0	6.1	1.5	1.6	3.1
29	11	16	13	33	------	8.0	17	6.6	6.4	10	1.4	2.6
30	13	13	11	23	------	7.7	13	6.0	21	15	1.4	2.3
31	10	------	17	13	------	7.4	------	7.7	------	5.0	1.7	------
TOTAL	180.3	672.3	800	397.9	407.0	288.0	399.6	314.0	152.9	228.2	175.5	117.2
MEAN	5.82	22.4	25.8	12.8	14.5	9.29	13.3	10.1	5.10	7.36	5.66	3.91
MAX	13	68	82	42	93	14	43	21	21	39	26	7.4
MIN	2.3	8.0	11	4.8	6.6	6.9	5.0	5.8	2.0	1.5	1.4	1.6
CFSM	1.36	5.22	6.01	2.98	3.38	2.17	3.10	2.35	1.19	1.72	1.32	.91
IN.	1.56	5.83	6.94	3.45	3.53	2.50	3.47	2.72	1.33	1.98	1.52	1.02

CAL YR 1972 TOTAL 4,805.49 MEAN 13.1 MAX 99 MIN .41 CFSM 3.05 IN 41.67
WTR YR 1973 TOTAL 4,132.90 MEAN 11.3 MAX 93 MIN 1.4 CFSM 2.63 IN 35.84

PEAK DISCHARGE (BASE, 90 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1830	3.72	91				
12-7	0900	3.73	97				
2-2	2215	3.77	111				

NOTE.--No gage-height record Apr. 22 to May 30, July 18 to Aug. 15.

01105730 Indian Head River at Hanover, Mass.

LOCATION.--Lat 42°06'02", long 70°49'23", Plymouth County, on right bank at downstream side of Elm Street Bridge, 0.3 mi (0.5 km) upstream from Iron Mine Brook, and 1 mi (2 km) southwest of Hanover.

DRAINAGE AREA.--30.3 mi² (78.5 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.16 ft (0.963 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 64.0 ft³/s (1.812 m³/s) 28.68 in/yr (728 mm/yr).

EXTREMES.--Current year: Maximum discharge, 428 ft³/s (12.1 m³/s) Dec. 7 (gage height, 4.67 ft or 1.423 m); minimum, 9.7 ft³/s (0.275 m³/s) Aug. 14, 15; minimum daily, 10 ft³/s (0.283 m³/s) Aug. 13, 14.
Period of record: Maximum discharge, 1,390 ft³/s (39.4 m³/s) Mar. 18, 1968 (gage height, 7.13 ft or 2.173 m); minimum, 0.18 ft³/s (0.005 m³/s) July 13, 14, 1971; minimum daily, 0.23 ft³/s (0.007 m³/s) July 14, 1971.

REMARKS.--Records good. Some regulation by mills and by Wampatuck, Indian Head, Maquan, and other ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	53	179	217	68	54	66	106	40	242	26	17
2	27	51	182	210	94	57	251	91	36	169	29	17
3	25	75	137	155	346	59	211	80	32	85	25	14
4	23	75	118	136	264	97	157	74	32	74	23	16
5	22	61	250	136	172	121	210	66	35	213	19	23
6	21	58	275	122	134	92	166	61	32	141	16	38
7	46	54	408	88	118	81	125	58	31	83	15	61
8	79	59	292	70	112	92	104	54	31	61	14	32
9	56	262	228	58	118	124	92	66	28	48	12	23
10	40	281	201	52	95	97	110	119	44	39	12	19
11	33	181	169	51	77	81	139	110	29	50	11	18
12	34	132	152	48	73	77	104	161	22	121	11	15
13	45	108	137	45	70	71	85	110	35	83	10	13
14	42	149	136	42	68	66	76	84	65	55	10	13
15	43	334	120	44	122	62	69	69	45	81	120	32
16	41	255	144	47	154	62	65	74	36	111	264	32
17	37	173	180	50	101	82	61	68	34	69	134	31
18	33	137	144	54	87	112	58	82	32	51	72	40
19	41	115	101	60	76	82	56	94	29	45	57	69
20	62	205	103	80	77	70	54	67	28	38	50	41
21	53	237	114	71	84	64	50	149	27	45	45	33
22	45	154	224	60	87	62	49	122	25	54	38	27
23	40	129	295	130	84	61	49	84	24	39	31	41
24	36	109	245	131	75	64	64	65	23	29	27	43
25	34	100	196	90	66	58	55	55	21	25	24	59
26	32	145	159	73	64	62	65	48	27	22	22	47
27	30	193	148	65	58	76	181	41	51	23	21	35
28	29	146	136	66	56	64	243	38	55	22	20	30
29	43	136	118	151	------	56	179	45	48	21	17	26
30	78	114	104	156	------	54	130	40	63	22	15	22
31	67	------	134	101	------	54	------	41	------	20	13	------
TOTAL	1,268	4,281	5,569	2,859	3,000	2,314	3,324	2,422	1,060	2,181	1,203	927
MEAN	40.9	143	180	92.2	107	74.6	111	78.1	35.3	70.4	38.8	30.9
MAX	79	334	408	217	346	124	251	161	65	242	264	69
MIN	21	51	101	42	56	54	49	38	21	20	10	13
CFSM	1.35	4.72	5.94	3.04	3.53	2.46	3.66	2.58	1.17	2.32	1.28	1.02
IN.	1.56	5.26	6.84	3.51	3.68	2.84	4.08	2.97	1.30	2.68	1.48	1.14

CAL YR 1972 TOTAL 32,711.2 MEAN 89.4 MAX 475 MIN 5.2 CFSM 2.95 IN 40.16
WTR YR 1973 TOTAL 30,408.0 MEAN 83.3 MAX 408 MIN 10 CFSM 2.75 IN 37.33

PEAK DISCHARGE (BASE, 280 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	2145	4.25	330	2-3	1730	4.50	385
11-15	1300	4.37	354	4-2	1415	4.02	285
12-7	1515	4.67	428	8-15	2145	4.21	322
12-23	0015	4.22	324				

01105870 Jones River at Kingston, Mass.

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, on left bank 100 ft (30 m) downstream from Elm Street Bridge, at Kingston, 2.8 mi (4.5 km) upstream from mouth.

DRAINAGE AREA.--15.8 mi^2 (40.9 km^2), excludes 4.09 mi^2 (10.59 km^2) above outlet of Silver Lake from which flow is diverted for municipal supply of Brockton and Whitman.

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 32.7 ft^3/s (0.926 m^3/s).

EXTREMES.--Current year: Maximum discharge, 217 ft^3/s (6.15 m^3/s) June 30 (gage height, 3.92 ft or 1.195 m); maximum gage height, 4.32 ft (1.317 m) Apr. 4 (backwater from tide); minimum daily discharge, 9.0 ft^3/s (0.25 m^3/s) Aug. 31 to Sept. 3.

Period of record: Maximum discharge, 575 ft^3/s (16.3 m^3/s) Mar. 19, 1968 (gage height, 4.60 ft or 1.402 m); maximum gage height, 4.65 ft (1.417 m) May 26, 1967 (backwater from tide); minimum daily discharge, 0.59 ft^3/s (0.017 m^3/s) Aug. 11, 1966.

REMARKS.--Records fair. Flow regulated by pond above station. Flow affected at times during springs of 1968-73 by wastage from 4.09 mi^2 (10.59 km^2) above outlet of Silver Lake. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	39	68	78	44	31	30	58	26	123	16	9.0
2	16	39	70	89	48	30	93	51	28	84	19	9.0
3	17	39	68	84	134	30	104	44	29	62	20	9.0
4	17	42	62	72	119	33	84	37	28	60	22	9.7
5	18	39	84	68	93	44	106	35	28	57	22	11
6	18	41	100	53	76	58	84	32	26	46	20	25
7	20	33	142	66	68	44	70	30	28	39	16	76
8	28	31	119	49	68	41	53	30	29	32	16	68
9	33	76	100	42	60	49	42	35	28	25	16	55
10	28	98	84	36	56	56	41	70	24	26	16	39
11	23	80	72	34	51	48	46	90	28	41	14	28
12	22	64	64	34	42	46	44	70	39	53	14	21
13	22	51	58	31	41	41	39	56	31	48	13	16
14	22	53	56	27	36	39	34	45	25	36	12	14
15	27	124	49	25	58	34	28	40	23	37	19	23
16	28	114	76	25	76	34	27	45	22	42	49	26
17	25	91	91	25	62	36	27	40	20	39	46	23
18	25	68	74	19	53	39	27	45	19	34	34	21
19	25	56	68	24	44	36	27	50	18	28	30	25
20	30	80	60	30	53	33	27	40	17	22	24	23
21	31	112	62	33	70	31	27	85	18	23	18	16
22	30	95	84	28	64	31	25	65	17	34	14	17
23	30	66	116	42	58	33	28	48	17	32	14	21
24	33	62	112	56	53	31	33	39	18	28	14	25
25	36	55	93	55	49	31	34	35	21	22	14	28
26	31	53	72	44	46	33	39	32	26	14	12	24
27	30	84	64	44	33	34	109	31	36	14	12	26
28	30	76	55	44	33	33	136	31	48	15	12	22
29	30	64	55	62	------	33	100	35	62	15	14	20
30	39	56	51	70	------	33	78	31	170	15	11	19
31	46	------	51	56	------	28	------	29	------	15	9.0	------
TOTAL	826	1,981	2,380	1,445	1,688	1,153	1,642	1,404	949	1,161	582.0	748.7
MEAN	26.6	66.0	76.8	46.6	60.3	37.2	54.7	45.3	31.6	37.5	18.8	25.0
MAX	46	124	142	89	134	58	136	90	170	123	49	76
MIN	16	31	49	19	33	28	25	29	17	14	9.0	9.0

CAL YR 1972 TOTAL 16,707.5 MEAN 45.6 MAX 335 MIN 8.5
WTR YR 1973 TOTAL 15,959.7 MEAN 43.7 MAX 170 MIN 9.0

NOTE.--No gage-height record May 4-30.

01105880 Herring River at North Harwich, Mass.

LOCATION.--Lat 41°42'00", long 70°06'27", Barnstable County, on left bank 30 ft (9 m) upstream from bridge on U.S. Route 6, 0.8 mi (1.3 km) northeast of North Harwich, 1.1 mi (1.8 km) downstream from Hinckleys Pond, and 2 mi (3 km) northwest of Harwich.

DRAINAGE AREA.--About 9.4 mi² (24.3 km²).

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 10.8 ft³/s (0.306 m³/s).

EXTREMES.--Current year: Maximum discharge, 32 ft³/s (0.91 m³/s) Dec. 7, Apr. 16, 26, July 21; maximum gage height, 3.80 ft (1.158 m) Dec. 7; minimum discharge, 4.9 ft³/s (0.14 m³/s) Nov. 1, 2.
Period of record: Maximum discharge, 59 ft³/s (1.67 m³/s) Sept. 3, 1972 (gage height, 4.43 ft or 1.350 m); maximum gage height, 4.88 ft or 1.487 m June 6, 1967; minimum discharge, 0.85 ft³/s (0.024 m³/s) Oct. 4-9, 1966.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by many ponds (some with no outlets) above station. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	9.1	17	20	16	16	18	22	21	27	22	15
2	13	5.6	16	20	17	15	24	21	21	26	21	15
3	12	6.0	16	20	19	15	22	21	20	25	21	15
4	11	6.1	16	20	18	16	20	21	21	24	21	15
5	11	6.7	18	20	18	16	18	21	21	24	20	15
6	14	7.9	18	19	18	16	9.9	21	21	23	20	16
7	16	8.8	26	19	18	16	9.9	20	21	23	19	16
8	16	10	29	18	19	16	11	20	21	22	19	15
9	14	13	28	17	19	17	12	22	21	21	18	14
10	13	13	26	16	18	16	13	24	22	20	18	14
11	12	12	25	17	16	16	13	24	22	21	17	14
12	12	12	22	17	13	16	13	24	22	23	17	13
13	13	12	21	16	14	16	14	23	21	22	16	13
14	12	15	20	17	14	17	16	22	22	21	16	12
15	13	17	19	16	18	17	17	23	22	22	16	15
16	12	15	21	17	20	17	27	23	21	23	16	14
17	12	14	19	17	20	17	29	22	20	21	16	13
18	12	14	19	17	19	18	27	22	20	21	17	13
19	14	13	18	17	20	17	26	21	20	21	17	13
20	14	16	18	16	20	17	24	21	20	20	17	13
21	13	16	18	16	19	17	23	23	20	25	16	12
22	13	15	21	16	19	17	22	23	20	26	16	11
23	12	14	21	16	19	16	22	23	21	25	17	13
24	12	14	21	16	19	16	21	23	20	24	16	12
25	12	13	20	16	18	16	20	22	20	23	16	12
26	12	16	20	16	17	18	24	22	20	21	16	11
27	11	16	20	15	17	19	26	22	23	21	16	11
28	11	16	19	16	17	18	25	21	24	21	16	11
29	13	16	19	18	------	17	23	22	26	22	16	11
30	14	15	19	17	------	17	23	21	26	22	16	10
31	12	------	19	16	------	17	------	21	------	21	16	------
TOTAL	396	377.2	629	534	499	515	592.8	681	640	701	547	397
MEAN	12.8	12.6	20.3	17.2	17.8	16.6	19.8	22.0	21.3	22.6	17.6	13.2
MAX	16	17	29	20	20	19	29	24	26	27	22	16
MIN	11	5.6	16	15	13	15	9.9	20	20	20	16	10

CAL YR 1972 TOTAL 3,942.7 MEAN 10.8 MAX 29 MIN 1.1
WTR YR 1973 TOTAL 6,509.0 MEAN 17.8 MAX 29 MIN 5.6

NOTE.--No gage-height record Oct. 1-10.

01106000 Adamsville Brook at Adamsville, R.I.

LOCATION.--Lat 41°33'30", long 71°07'47", Newport County, on right bank 0.2 mi (0.3 km) upstream from milldam at Adamsville and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--7.91 mi² (20.49 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 16, 1942. Altitude of gage is 15 ft (5 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 14.3 ft³/s (0.405 m³/s) 24.55 in/yr (624 mm/yr).

EXTREMES.--Current year: Maximum discharge, 176 ft³/s (4.98 m³/s) Feb. 3 (gage height, 5.95 ft or 1.814 m); minimum, 0.71 ft³/s (0.020 m³/s) Sept. 11-14.

Period of record: Maximum discharge, 316 ft³/s (8.95 m³/s) Dec. 27, 1969 (gage height, 7.65 ft or 2.332 m); maximum gage height, 7.70 ft (2.347 m) Mar. 18, 1968; minimum discharge, 0.03 ft³/s (0.001 m³/s) Sept. 23, 24, Oct. 3, 4, 1950, Sept. 24, 25, 29, 1971.

REMARKS.--Records good. Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1955-59. WRD Mass., N.H., R.I., Vt., 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	23	37	34	21	11	18	27	10	41	5.9	1.6
2	9.4	21	39	44	26	11	93	22	9.6	46	5.5	1.5
3	8.6	22	33	36	147	12	88	19	8.8	29	5.5	1.5
4	8.2	20	28	31	102	22	55	17	8.6	21	5.2	1.3
5	7.8	18	48	35	53	35	77	16	8.0	22	4.3	1.2
6	7.4	17	62	31	36	30	57	15	7.8	21	3.9	1.2
7	17	16	120	21	29	24	39	14	7.8	16	3.4	1.2
8	27	16	86	17	29	26	31	13	7.1	13	3.2	1.0
9	26	45	55	14	30	38	31	19	6.5	9.7	2.8	1.0
10	20	59	46	12	25	34	30	46	6.2	7.8	2.5	.92
11	16	45	40	10	20	26	30	44	5.5	7.4	2.3	.81
12	14	32	33	9.7	18	22	26	39	4.9	11	2.1	.71
13	13	25	31	9.0	16	20	22	31	5.9	11	1.9	.71
14	11	33	30	8.2	15	17	19	23	11	9.4	1.8	.71
15	12	86	28	8.6	26	16	17	20	12	17	10	3.2
16	12	66	53	9.0	37	15	16	17	11	31	20	2.8
17	12	43	84	9.7	28	16	15	15	8.6	26	20	1.9
18	11	21	35	11	21	16	14	16	7.1	17	15	2.3
19	12	25	27	12	17	17	14	17	6.5	13	11	3.4
20	17	37	26	15	17	16	13	17	5.9	10	9.0	2.3
21	16	132	29	16	17	14	13	31	5.5	20	7.1	2.1
22	16	95	52	14	18	13	12	33	4.9	29	6.2	2.1
23	14	41	78	23	18	13	12	26	4.9	23	5.9	7.1
24	13	31	62	26	17	13	12	21	4.6	16	5.2	6.2
25	12	26	46	23	15	12	12	18	4.3	12	4.3	5.2
26	11	42	36	19	14	16	21	16	4.3	9.7	3.9	4.3
27	11	75	31	17	13	26	83	14	5.9	9.0	3.4	3.9
28	10	55	28	20	12	22	87	13	7.1	8.2	3.0	3.6
29	16	40	25	41	------	18	56	14	7.1	7.4	2.5	3.4
30	25	31	22	44	------	16	38	12	10	7.1	2.3	4.1
31	27	------	21	30	------	15	------	11	------	6.5	1.8	------
TOTAL	443.1	1,270	1,341	650.2	837	606	1,046	656	217.4	527.2	180.9	73.26
MEAN	14.3	42.3	43.2	21.0	29.9	19.5	34.9	21.2	7.25	17.0	5.84	2.44
MAX	27	132	120	44	147	38	93	46	12	46	20	7.1
MIN	7.4	16	21	8.2	12	11	12	11	4.3	6.5	1.8	.71
CFSM	1.81	5.35	5.47	2.65	3.78	2.47	4.41	2.68	.92	2.15	.74	.31
IN.	2.09	5.97	6.31	3.06	3.94	2.85	4.92	3.09	1.02	2.48	.85	.34

CAL YR 1972 TOTAL 9,423.60 MEAN 25.7 MAX 180 MIN 2.7 CFSM 3.25 IN 44.32
WTR YR 1973 TOTAL 7,848.06 MEAN 21.5 MAX 147 MIN .71 CFSM 2.72 IN 36.91

PEAK DISCHARGE (BASE, 120 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	0100	5.68	160				
12-7	1415	5.27	135				
2-3	1215	5.95	176				

01107000 Dorchester Brook near Brockton, Mass.

LOCATION.--Lat 42°03'41", long 71°03'59", Plymouth County, on right bank 20 ft (6 m) upstream from bridge on Pearl Street and 3 mi (5 km) southwest of Brockton.

DRAINAGE AREA.--4.67 mi² (12.10 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73), 8.29 ft³/s (0.235 m³/s), 24.11 in/yr (612 mm/yr).

EXTREMES.--Current year: Maximum discharge, 59 ft³/s (1.67 m³/s) Dec. 7 (gage height, 3.86 ft or 1.177 m); maximum gage height, 3.96 ft (1.207 m) Feb. 3; minimum discharge, 1.1 ft³/s (0.031 m³/s) Oct. 5-7.

Period of record: Maximum discharge, 359 ft³/s (10.2 m³/s) Mar. 18, 1968 (gage height, 5.86 ft or 1.786 m); no flow for part of Sept. 8, 9, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.0	22	40	11	6.5	9.0	12	6.8	46	4.0	2.2
2	1.8	7.5	21	41	18	6.8	32	10	6.2	35	4.5	2.5
3	1.5	10	13	30	53	7.1	33	9.7	6.1	22	4.0	2.0
4	1.2	9.0	11	23	43	10	25	9.0	5.9	16	3.5	1.9
5	1.1	8.0	34	21	29	15	29	8.4	6.1	17	3.0	3.0
6	1.1	7.3	38	18	21	14	23	8.1	5.6	18	2.5	5.0
7	3.3	7.0	54	12	17	11	17	7.4	4.4	15	2.2	9.0
8	3.6	9.9	42	7.3	15	12	14	6.8	4.0	12	1.9	5.0
9	3.6	33	37	5.6	15	15	12	7.8	4.2	8.8	1.6	3.3
10	5.9	27	31	4.8	12	13	15	12	4.0	7.8	1.6	2.7
11	2.8	16	25	4.8	10	11	22	16	3.8	9.2	1.4	2.1
12	3.1	8.5	19	4.6	8.8	11	18	24	3.3	10	1.3	1.7
13	3.6	5.9	17	4.1	8.8	10	14	19	4.4	9.5	1.2	1.5
14	3.3	11	16	3.8	8.5	9.0	12	13	4.6	8.8	1.2	1.5
15	4.3	36	14	4.1	13	8.4	11	11	4.2	9.9	15	4.6
16	5.1	28	22	4.6	16	7.8	9.4	10	4.2	11	50	4.9
17	3.8	15	20	5.1	11	9.0	9.0	9.7	3.6	10	25	4.3
18	2.8	9.9	13	6.1	8.7	12	8.7	9.7	3.3	8.8	10	5.1
19	4.3	5.6	11	7.0	7.8	12	8.1	10	3.1	8.1	7.0	7.0
20	5.3	20	12	11	8.1	11	7.4	9.0	2.7	7.8	7.0	7.3
21	5.6	26	14	9.9	9.0	10	6.8	14	2.5	8.1	6.0	7.0
22	5.3	18	31	7.0	9.7	9.0	6.8	15	2.3	7.8	6.0	6.1
23	4.7	11	42	17	9.7	8.7	6.8	12	2.2	7.3	4.3	6.[illegible]
24	4.1	7.3	42	20	9.0	8.7	8.1	10	1.9	6.4	3.3	5.5
25	3.6	6.1	36	15	8.1	8.7	8.1	8.4	1.6	4.3	2.7	5.9
26	3.2	13	31	12	7.1	9.0	8.7	7.8	5.6	3.8	2.3	6.1
27	2.9	20	29	9.9	6.8	10	19	7.1	9.4	3.3	3.0	6.4
28	2.7	15	27	9.5	6.5	9.7	24	6.8	15	2.8	2.5	5.9
29	6.0	11	22	25	------	8.7	20	6.8	13	4.0	2.0	5.4
30	10	8.5	16	31	------	8.1	16	6.4	24	4.5	1.7	4.9
31	8.0	------	18	19	------	7.8	------	7.0	------	3.3	1.5	------
TOTAL	119.7	416.5	780	433.2	400.6	310.0	452.9	323.9	168.0	346.3	183.2	136.7
MEAN	3.86	13.9	25.2	14.0	14.3	10.0	15.1	10.4	5.60	11.2	5.91	4.56
MAX	10	36	54	41	53	15	33	24	24	46	50	9.0
MIN	1.1	5.6	11	3.8	6.5	6.5	6.8	6.4	1.6	2.8	1.2	1.5
CFSM	.83	2.98	5.40	3.00	3.06	2.14	3.23	2.23	1.20	2.40	1.27	.98
IN.	.95	3.32	6.21	3.45	3.19	2.47	3.61	2.58	1.34	2.76	1.46	1.09

CAL YR 1972 TOTAL 4,861.98 MEAN 13.3 MAX 86 MIN .22 CFSM 2.85 IN 38.73
WTR YR 1973 TOTAL 4,071.00 MEAN 11.2 MAX 54 MIN 1.1 CFSM 2.40 IN 32.43

PEAK DISCHARGE (BASE, 55 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0600	3.86	59				
2-3	0930	3.96	55				

NOTE.--No gage-height record July 29 to Sept. 12.

01108000 Taunton River at State Farm, near Bridgewater, Mass.

LOCATION.--Lat 41°56'05", long 70°57'18", Plymouth County, on right bank at State Farm, 1 mi (2 km) upstream from Sawmill Brook, 3.5 mi (5.6 km) northwest of Middleboro, and 4 mi (6 km) southeast of Bridgewater.

DRAINAGE AREA.--260 mi² (673 km²).

PERIOD OF RECORD.--October 1929 to current year. Prior to October 1969, published as "at State Farm."

GAGE.--Water-stage recorder. Datum of gage is 9.61 ft (2.929 m) above mean sea level. Prior to Oct. 1, 1931, inverted nonrecording gage at site 40 ft (12 m) downstream with zero of gage at 10.02 ft (3.054 m) on present gage. Oct. 1, 1931, to June 8, 1934, nonrecording gage and June 9, 1934, to Oct. 12, 1939, water-stage recorder, at site 40 ft (12 m) downstream at present datum.

AVERAGE DISCHARGE.--44 years, 484 ft³/s (13.71 m³/s) 25.28 in/yr (642 mm/yr), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 2,470 ft³/s (70.0 m³/s) Dec. 8 (gage height, 8.82 ft or 2.688 m); minimum, 94 ft³s (2.66 m³/s) Aug. 14, 15; minimum daily, 99 ft³/s (2.80 m³/s) Aug. 14.

Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Mar. 20, 1968 (gage height, 14.48 ft or 4.414 m); minimum, 8 ft³/s (0.23 m³/s) Sept. 10, 1944; minimum daily, 9 ft³/s (0.25 m³/s) Sept. 9-12, 1944.

REMARKS.--Records good. Diversions to and from basin above station for municipal supplies: to the basin from Silver Lake for Brockton and other towns and from Great Sandy Bottom Pond for Abington; from the basin from ponds at head of Nemasket River for New Bedford, Taunton, and other towns. Flow regulated by reservoirs and small powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1934. WSP 1051: 1933. WSP 1201: 1931. WSP 1301: 1930(M), 1933(M), 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	536	1,250	1,380	797	580	496	987	481	1,260	265	205
2	206	461	1,390	1,640	822	584	1,130	835	428	1,410	236	179
3	217	535	1,290	1,590	1,720	612	1,470	758	389	1,220	221	160
4	210	606	1,170	1,490	2,150	683	1,360	696	356	972	212	197
5	232	590	1,260	1,390	2,000	901	1,450	645	342	1,140	193	246
6	210	526	1,720	1,300	1,690	908	1,470	595	321	1,160	174	403
7	302	484	2,190	1,000	1,440	860	1,250	555	302	986	164	1,200
8	460	482	2,450	950	1,280	845	1,090	523	287	784	144	1,150
9	416	984	2,320	900	1,190	951	951	528	275	624	147	845
10	365	1,390	2,110	744	1,060	938	939	741	320	563	132	602
11	344	1,350	1,890	668	925	870	1,030	792	293	473	107	417
12	362	1,210	1,640	644	780	819	965	1,040	265	780	101	330
13	378	1,040	1,470	616	828	772	880	1,080	258	890	116	267
14	398	1,040	1,360	577	814	733	817	937	371	707	99	223
15	415	1,650	1,240	578	937	690	751	822	328	650	233	321
16	378	1,830	1,340	576	1,190	665	679	758	258	762	857	399
17	380	1,660	1,380	584	1,050	681	627	703	224	689	882	358
18	369	1,390	1,260	591	908	780	597	693	200	615	769	360
19	364	1,190	1,110	629	838	752	554	785	165	565	629	573
20	464	1,370	1,030	705	782	694	525	725	174	440	479	526
21	431	1,770	1,050	722	800	632	502	863	160	417	419	413
22	421	1,690	1,350	682	829	588	480	998	159	472	331	337
23	405	1,470	1,900	834	828	570	456	889	152	391	281	334
24	406	1,240	2,030	1,010	790	575	459	815	159	375	243	365
25	352	1,110	1,910	955	735	564	469	716	139	334	213	392
26	343	1,120	1,680	883	692	558	476	653	179	265	188	371
27	325	1,410	1,510	817	649	607	872	598	366	256	177	337
28	299	1,380	1,390	764	602	578	1,330	557	413	226	173	298
29	349	1,280	1,270	916	------	545	1,370	573	380	232	165	265
30	537	1,160	1,150	1,080	------	513	1,190	554	515	314	160	244
31	568	------	1,120	959	------	489	------	512	------	287	137	------
TOTAL	11,130	33,954	47,230	28,164	29,126	21,538	26,605	22,926	8,679	20,259	8,647	12,317
MEAN	359	1,132	1,524	909	1,040	695	887	740	289	654	279	411
MAX	568	1,830	2,450	1,640	2,150	951	1,470	1,080	515	1,410	882	1,200
MIN	206	461	1,030	576	602	489	456	512	139	226	99	160
MEAN†	384	1,156	1,545	930	1,060	715	906	761	314	675	305	435
CFSM†	1.48	4.45	5.94	3.58	4.08	2.75	3.48	2.93	1.21	2.60	1.17	1.67
IN.†	1.70	4.96	6.85	4.12	4.25	3.17	3.89	3.38	1.35	3.00	1.35	1.87

CAL YR 1972 TOTAL 272,483 MEAN 744 MAX 2,450 MIN 81 MEAN† 768 CFSM† 2.95 IN† 40.22
WTR YR 1973 TOTAL 270,575 MEAN 741 MAX 2,450 MIN 99 MEAN† 764 CFSM† 2.94 IN† 39.89

† Adjusted for diversions to and from basin for municipal supplies of New Bedford, Taunton, Brockton, Abington, and other towns. Records of diversion furnished by municipalities.

01108500 Wading River at West Mansfield, Mass.

LOCATION.--Lat 42°00'00", long 71°15'38", Bristol County, on right bank 200 ft (60 m) downstream from Balcolm Street Bridge at West Mansfield, 2 mi (3 km) upstream from Hodges Brook, and 3 mi (5 km) southwest of Mansfield.

DRAINAGE AREA.--19.2 mi^2 (49.7 km^2).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 120.85 ft (36.835 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 34.6 ft^3/s (0.980 m^3/s), 24.47 in/yr (622 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 167 ft^3/s (4.73 m^3/s) Dec. 7 (gage height, 5.19 ft or 1.582 m); maximum gage height, 5.20 ft (1.585 m) Jan. 7 (backwater from ice); minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) Aug. 13.
Period of record: Maximum discharge, 541 ft^3/s (15.3 m^3/s) Mar. 19, 1968 (gage height, 6.60 ft or 2.012 m); no flow Oct. 22-24, 1957 (caused by temporary storage upstream).

REMARKS.--Records good. Flow regulated by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro (see table below for figures of diversion) and small diversions to and from basin for other municipal supplies.

REVISIONS (WATER YEARS).--WSP 1621: 1953-58 (monthly runoff). WRD Mass., N.H., R.I., Vt. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	21	111	100	57	33	29	66	39	56	5.1	7.7
2	7.5	22	111	111	68	34	62	58	34	56	5.6	6.2
3	6.9	28	101	108	128	33	73	55	32	46	6.2	5.8
4	6.7	28	90	107	136	38	72	55	29	44	6.2	5.5
5	6.4	25	114	108	134	44	88	50	29	46	5.6	4.8
6	5.8	24	127	100	129	43	90	45	26	42	4.8	13
7	14	22	160	78	112	42	86	41	25	34	4.2	12
8	22	27	162	69	94	45	79	36	19	25	3.7	8.6
9	22	83	161	58	85	50	71	36	6.9	18	3.4	7.1
10	17	99	155	54	73	51	74	43	13	16	3.1	6.6
11	15	93	144	49	66	49	87	50	12	19	3.0	6.0
12	14	89	130	46	61	46	74	63	10	24	2.8	5.6
13	16	84	124	43	57	44	68	61	14	20	2.6	5.3
14	16	94	114	43	54	40	67	55	21	15	2.8	5.3
15	15	125	105	44	62	36	62	51	20	16	12	8.6
16	13	127	113	43	67	36	60	50	15	14	16	8.1
17	12	118	108	43	61	40	57	48	13	13	14	7.1
18	10	108	90	43	56	42	53	46	11	10	11	12
19	13	96	85	43	52	40	52	43	10	9.0	9.7	15
20	14	114	81	49	49	38	49	40	11	7.9	9.0	13
21	13	123	79	49	48	35	47	52	11	9.0	8.1	9.9
22	11	112	92	44	46	34	45	55	10	9.2	7.5	8.6
23	11	103	102	63	44	33	44	49	10	8.6	6.9	9.7
24	11	96	103	68	41	31	43	44	9.9	7.5	6.6	9.5
25	9.9	87	99	61	39	31	40	41	9.0	6.9	6.0	9.9
26	9.0	97	95	55	38	32	42	38	8.4	6.7	5.8	9.7
27	8.6	106	94	53	38	33	66	36	9.2	6.2	6.2	8.8
28	9.9	98	90	51	35	30	82	37	12	5.9	6.0	8.4
29	16	99	84	68	------	28	80	39	16	5.8	5.6	7.9
30	25	96	78	74	------	27	72	41	33	5.4	5.3	7.1
31	24	------	79	63	------	27	------	44	------	5.0	5.3	------
TOTAL	402.9	2,444	3,381	1,988	1,930	1,165	1,914	1,468	518.4	607.1	200.1	252.8
MEAN	13.0	81.5	109	64.1	68.9	37.6	63.8	47.4	17.3	19.6	6.45	8.43
MAX	25	127	162	111	136	51	90	66	39	56	16	15
MIN	5.8	21	78	43	35	27	29	36	6.9	5.0	2.6	4.8
(†)	2.47	2.48	2.43	2.54	2.49	3.03	3.29	3.34	3.42	3.92	3.85	3.53

CAL YR 1972 TOTAL 18,556.0 MEAN 50.7 MAX 171 MIN 3.4 MEAN‡ 53.2 CFSM‡ 2.77 IN‡ 37.71
WTR YR 1973 TOTAL 16,271.3 MEAN 44.6 MAX 162 MIN 2.6 MEAN‡ 47.6 CFSM‡ 2.48 IN‡ 33.70

† Diversion, in cubic feet per second, for municipal supply of Attleboro; records furnished by city of Attleboro.
‡ Adjusted for diversion.

01109000 Wading River near Norton, Mass.

LOCATION.--Lat 41°56'51", long 71°10'38", Bristol County, on left bank 200 ft (60 m) downstream from bridge on State Highway 140, 0.9 mi (1.4 km) upstream from confluence with Rumford River, and 1.5 mi (2.4 km) southeast of Norton.

DRAINAGE AREA.--42.4 mi² (109.8 km²).

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 49.63 ft (15.127 m) above mean sea level. Prior to May 5, 1933, nonrecording gage at same site (at datum 0.62 ft or 0.189 m higher prior to Oct. 1, 1930, and at present datum thereafter).

AVERAGE DISCHARGE.--48 years, 72.5 ft³/s (2.053 m³/s), 23.22 in/yr (590 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 431 ft³/s (12,2 m³/s) Dec. 7 (gage height, 8.64 ft or 2.633 m); minimum, 3.9 ft³/s (0.110 m³/s) Aug. 14; minimum daily, 5.3 ft³/s (0,150 m³/s).
Period of record: Maximum discharge, 1,460 ft³/s (41.3 m³/s) Mar. 19, 1968 (gage height, 11.47 ft or 3.496 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 10, 1926.

REMARKS.--Records good. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro (see table below for figures of diversion) and small diversions to and from basin for other municipal supplies.

REVISIONS (WATER YEARS).--WSP 871: 1938. WSP 1301: 1929-33(M). WSP 1621: 1925-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	66	204	259	125	75	69	146	82	151	18	13
2	32	62	219	289	141	75	184	132	72	145	19	17
3	29	74	196	247	352	77	237	120	63	111	23	15
4	26	81	176	225	335	93	193	111	58	87	31	15
5	25	75	237	226	277	126	226	106	52	89	25	14
6	23	68	284	213	252	118	216	97	53	89	21	48
7	47	62	417	202	231	110	189	89	52	76	18	118
8	82	91	386	160	207	115	172	85	51	61	15	83
9	81	191	354	129	191	138	158	85	42	50	14	56
10	66	271	335	113	164	133	166	110	30	40	13	45
11	55	197	302	103	144	121	209	134	24	43	11	38
12	50	177	271	96	124	116	188	188	24	68	11	32
13	52	161	252	89	120	110	158	166	30	64	9.4	28
14	49	201	240	83	110	101	122	142	48	47	5.3	24
15	53	327	220	81	133	94	129	127	48	63	44	42
16	49	297	235	82	153	89	120	123	40	77	114	47
17	46	246	230	83	128	97	113	115	34	61	86	52
18	41	215	204	87	110	110	105	105	30	50	61	69
19	43	191	180	93	106	105	103	102	27	43	47	58
20	50	233	175	113	102	94	100	94	25	36	42	50
21	48	273	180	112	102	87	92	128	25	40	38	57
22	45	235	228	101	103	82	87	138	25	45	33	45
23	41	200	288	163	102	80	83	120	25	39	31	43
24	40	180	289	184	96	60	85	105	24	33	26	43
25	38	167	261	154	89	69	81	94	23	28	23	42
26	36	183	239	133	86	76	87	86	23	25	20	40
27	34	221	230	121	80	81	163	80	25	25	19	37
28	32	202	223	116	75	75	212	80	32	24	20	33
29	52	181	203	166	------	69	197	89	38	22	18	38
30	72	171	181	185	------	62	167	83	79	21	16	28
31	73	------	179	167	------	84	------	82	------	18	14	------
TOTAL	1,444	5,299	7,618	4,575	4,238	2,902	4,411	3,462	1,204	1,771	885.7	1,262
MEAN	46.6	177	246	148	151	93.6	1[illegible]7	112	40.1	57.1	28.6	42.1
MAX	82	327	417	289	352	138	237	188	82	151	114	118
MIN	23	62	175	81	75	60	69	80	23	18	5.3	13
(†)	2.47	2.48	2.43	2.54	2.49	3.03	3.29	3.34	3.42	3.92	3.85	3.53

CAL YR 1972 TOTAL 42,908.0 MEAN 117 MAX 486 MIN 11 MEAN‡ 120 CFSM‡ 2.83 IN‡ 38.44
WTR YR 1973 TOTAL 39,071.7 MEAN 107 MAX 417 MIN 5.3 MEAN‡ 110 CFSM‡ 2.59 IN‡ 35.26

PEAK DISCHARGE (BASE, 280 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-10	0400	7.83	291	1-1	2400	7.76	301
11-15	1300	8.16	340	2-3	2000	8.38	390
12-7	1100	8.64	431	4-3	1400	7.60	280
12-24	0[illegible]	7.71	294				

† Diversion, in cubic feet per second, for municipal supply of Attleboro; records furnished by city of Attleboro.
‡ Adjusted for diversion.

01109060 Threemile River at North Dighton, Mass.

LOCATION.--Lat 41°51'58", long 71°07'24", Bristol County, on right bank 800 ft (250 m) downstream from Warner Boulevard at North Dighton and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--83.8 mi² (217.0 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 170 ft³/s (4.814 m³/s).

EXTREMES.--Current year: Maximum discharge, 955 ft³/s (27.0 m³/s) Dec. 7 (gage height, 5.51 ft or 1.679 m); minimum, 29 ft³/s (0.82 m³/s) Aug. 15.
Period of record: Maximum discharge, 2,490 ft³/s (70.5 m³/s) Mar. 19, 1968 (gage height, 8.30 ft or 2.530 m); minimum, 5.6 ft³/s (0.16 m³/s) Aug. 16, 17, 21, 22, 1966.

REMARKS.--Records good. Flow regulated by Lake Mirimichi and other lakes and reservoirs above staton. Diversions to and from basin above station for municipal supplies may be compensating.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	121	427	459	273	170	172	336	146	279	42	54
2	90	114	462	685	304	171	314	288	145	334	38	52
3	85	127	454	573	624	185	443	256	133	290	38	52
4	81	134	481	502	809	196	437	233	125	240	38	52
5	77	134	478	474	689	206	431	217	123	229	39	51
6	74	125	614	416	576	203	439	210	120	192	35	114
7	111	114	866	304	510	188	397	196	117	170	31	215
8	149	114	945	323	464	182	351	178	113	146	37	202
9	163	267	834	288	416	199	319	189	109	121	48	140
10	150	427	749	242	359	209	321	228	98	102	48	101
11	130	522	675	218	386	219	378	280	86	104	49	84
12	118	412	590	202	269	216	400	360	76	160	45	74
13	116	361	531	182	256	207	360	408	62	143	36	67
14	111	382	496	170	233	197	306	340	73	123	32	63
15	104	598	453	170	264	185	257	290	75	139	90	91
16	96	701	486	170	296	176	247	260	68	168	198	101
17	90	618	424	174	274	183	237	240	61	160	192	96
18	82	514	449	183	225	203	224	225	53	128	140	107
19	84	435	383	190	233	205	213	210	49	105	101	138
20	93	502	348	215	225	197	202	210	47	89	87	118
21	94	586	354	223	220	180	155	270	45	93	80	98
22	91	582	465	210	217	171	139	261	44	107	71	97
23	87	490	633	248	217	166	136	244	44	99	66	97
24	81	408	692	319	213	172	140	225	44	84	61	92
25	77	361	638	316	202	159	142	199	42	74	58	90
26	73	378	552	275	193	172	148	180	44	67	59	85
27	67	439	507	246	185	187	286	165	52	65	59	80
28	65	470	474	230	174	181	439	160	61	64	59	75
29	85	446	436	209	-------	169	468	169	69	61	58	70
30	118	386	390	342	-------	161	403	169	174	60	55	67
31	123	-------	369	351	-------	157	-------	156	-------	56	53	-------
TOTAL	3,058	11,268	16,564	9,119	9,224	5,752	8,924	7,344	2,498	4,252	2,035	2,821
MEAN	98.6	376	534	294	329	186	297	237	83.3	137	65.6	94.0
MAX	163	701	945	605	809	219	468	408	174	334	192	215
MIN	65	114	348	170	174	157	136	156	42	56	31	51

CAL YR 1972 TOTAL 92,885 MEAN 254 MAX 1,020 MIN 28
WTR YR 1973 TOTAL 87,859 MEAN 227 MAX 945 MIN 31

PEAK DISCHARGE (BASE, 600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-16	1000	5.00	715	12-23	2100	4.97	702
11-21	1630	4.75	610	1-2	1315	4.81	634
12-7	2400	5.51	955	2-4	0915	5.25	828

01109070 Segreganset River near Dighton, Mass.

LOCATION.--Lat 41°50'25", long 71°08'36", Bristol County, on left bank 50 ft (15 m) upstream from twin culverts on Center Street and 1.8 mi (2.9 km) northwest of Dighton.

DRAINAGE AREA.--10.6 mi² (27.5 km²).

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 22.5 ft³/s (0.637 m³/s), 28.82 in/yr (732 mm/yr).

EXTREMES.--Current year: Maximum discharge, 231 ft³/s (6.54 m³/s) Feb. 3 (gage height, 4.50 ft or 1.372 m); minimum, 0.98 ft³/s (0.028 m³/s) Aug. 14, 15.
Period of record: Maximum discharge, 867 ft³/s (24.6 m³/s) Mar. 18, 1968 (gage height, 7.51 ft or 2.289 m); no flow Aug. 13-22, 1966, Oct. 2, 3, 1968, Sept. 5, 6, 1969.

REMARKS.--Records good. Occasional regulation by ponds above station.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	27	62	71	25	14	24	32	8.3	105	3.2	2.1
2	8.7	23	70	85	42	15	130	25	5.6	85	3.4	2.4
3	8.0	28	50	55	212	17	122	20	6.2	42	3.4	2.6
4	7.0	31	41	42	139	35	78	20	5.6	29	3.4	2.4
5	6.2	29	81	46	73	57	85	18	7.3	50	3.4	2.1
6	5.6	24	113	41	42	44	71	16	18	41	3.2	21
7	15	29	206	34	38	32	47	15	19	23	2.9	78
8	36	22	138	22	38	33	37	13	13	14	2.4	50
9	35	108	95	16	38	42	35	19	8.3	9.0	2.1	25
10	24	132	73	14	30	37	42	44	6.2	6.7	1.7	14
11	17	70	66	13	25	29	66	50	3.6	8.7	1.5	7.3
12	14	47	51	12	21	27	47	57	3.1	46	1.3	4.7
13	14	37	46	12	20	24	35	42	4.2	41	1.1	4.9
14	15	59	46	10	17	21	28	29	11	22	1.0	5.9
15	15	159	41	16	34	20	24	22	9.0	26	9.4	12
16	16	114	63	17	47	19	21	20	5.6	52	55	19
17	14	58	64	15	34	23	19	17	4.2	39	42	14
18	13	44	46	18	24	30	19	18	3.6	22	22	16
19	14	36	33	22	19	28	18	19	3.2	11	13	28
20	19	92	37	29	19	23	17	16	3.2	9.8	9.4	24
21	21	127	50	25	22	19	16	35	2.9	12	8.7	15
22	20	69	104	21	25	18	15	40	2.7	19	7.0	11
23	17	47	157	39	26	18	9.8	27	2.6	15	4.5	12
24	15	37	125	46	23	18	13	21	2.6	9.8	4.2	14
25	14	32	92	34	20	18	14	17	2.4	7.0	4.5	13
26	12	52	67	26	18	21	24	14	2.4	5.6	4.2	11
27	12	83	49	22	16	26	86	12	2.9	5.1	3.6	8.7
28	10	60	47	22	14	23	110	13	5.6	5.1	3.2	7.6
29	17	46	41	62	------	19	71	19	9.8	4.7	2.9	6.7
30	30	39	35	75	------	17	42	18	49	3.8	2.4	5.9
31	34	------	34	42	------	17	------	13	------	3.1	2.2	------
TOTAL	507.5	1.752	2.222	1.004	1.101	784	1.357.8	741	231.1	772.4	232.2	440.3
MEAN	16.4	58.4	71.7	32.4	39.3	25.3	45.3	23.9	7.70	24.9	7.49	14.7
MAX	36	159	206	85	212	57	130	57	49	105	55	78
MIN	5.6	20	33	10	14	14	9.8	12	2.4	3.1	1.0	2.1
CFSM	1.55	5.51	6.76	3.06	3.71	2.39	4.27	2.25	.73	2.35	.71	1.39
IN.	1.78	6.15	7.80	3.52	3.86	2.75	4.77	2.60	.81	2.71	.81	1.55

CAL YR 1972 TOTAL 12.665.7 MEAN 34.6 MAX 243 MIN 1.1 CFSM 3.26 IN 44.45
WTR YR 1973 TOTAL 11.145.3 MEAN 30.5 MAX 212 MIN 1.0 CFSM 2.88 IN 39.11

PEAK DISCHARGE (BASE, 170 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	1230	4.14	174				
12-7	1400	4.43	221				
2-3	1415	4.50	231				

01109200 West Branch Palmer River near Rehoboth, Mass.

LOCATION.--Lat 41°52'46", long 71°15'18", Bristol County, on left bank 20 ft (6 m) downstream from culvert on Homestead Avenue and 2.6 mi (4.2 km) north of Rehoboth.

DRAINAGE AREA.--4.96 mi² (12.85 km²).

PERIOD OF RECORD.--October 1962 to current year. Prior to October 1970, published as Bliss Brook near Rehoboth.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73), 8.30 ft³/s (0.235 m³/s), 22.72 in/yr (577 mm/yr).

EXTREMES.--Current year: Maximum discharge, 134 ft³/s (3.79 m³/s) Dec. 7 (gage height, 4.50 ft or 1.372 m); minimum, 0.60 ft³/s (0.017 m³/s) Sept. 6.

Period of record: Maximum discharge, 441 ft³/s (12.5 m³/s) Mar. 18, 1968 (gage height, 5.43 ft or 1.655 m); no flow at times in water years 1964-66, 1970, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage at station since April 1963 (no winter records). Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	11	31	45	8.9	6.4	11	12	4.2	48	2.0	1.0
2	4.4	11	26	37	21	7.1	56	10	4.5	26	2.1	.94
3	3.9	16	19	23	101	7.5	42	9.5	4.1	14	3.2	.81
4	3.6	14	16	19	51	15	31	8.7	3.9	10	2.7	.68
5	3.2	11	44	20	30	20	47	8.0	4.0	12	1.9	.64
6	3.1	10	45	15	21	16	31	6.9	4.0	9.0	1.3	16
7	14	8.9	106	9.2	17	14	23	6.6	3.7	6.2	1.1	42
8	21	12	52	8.0	16	16	20	6.2	3.4	4.5	1.0	17
9	14	73	45	6.4	16	21	19	7.5	3.0	3.6	.81	10
10	9.9	51	34	5.7	13	16	29	20	3.5	2.9	.68	6.9
11	7.9	31	27	5.3	11	14	34	15	3.0	7.3	1.4	4.8
12	7.2	23	20	5.1	9.1	13	24	20	2.5	25	4.8	3.7
13	7.9	17	20	4.8	8.5	12	19	14	3.0	13	3.9	3.1
14	7.0	33	19	4.2	8.0	10	16	10	6.0	8.5	3.3	2.7
15	6.8	78	16	4.6	15	9.9	14	8.0	5.0	23	20	11
16	6.6	42	29	5.1	16	9.6	13	9.0	4.2	26	32	8.5
17	6.4	28	22	5.7	12	12	13	7.5	3.7	16	16	6.0
18	5.7	21	15	6.4	9.1	14	12	8.5	3.2	10	10	9.2
19	6.6	17	13	7.4	8.3	12	11	10	3.0	7.8	6.4	16
20	9.4	44	15	12	8.8	10	10	8.0	2.8	6.0	4.8	10
21	8.1	39	19	10	9.6	9.1	9.6	17	2.6	8.5	4.2	7.5
22	7.2	26	43	7.9	10	8.8	9.1	15	2.4	9.7	3.2	5.8
23	7.0	19	52	26	10	8.5	9.1	12	2.4	6.2	3.1	6.2
24	6.4	15	48	22	9.4	8.5	9.4	9.5	2.3	4.6	2.3	5.8
25	5.7	14	33	14	8.3	7.8	9.1	8.0	2.1	3.6	1.9	5.3
26	5.3	28	27	11	8.3	9.4	12	6.8	2.0	2.9	1.5	4.5
27	4.9	32	25	10	7.3	11	37	5.8	2.9	2.9	1.4	4.0
28	4.8	23	22	10	6.6	9.1	32	5.0	4.6	2.8	1.5	3.9
29	14	19	17	27	------	8.5	21	6.0	4.0	2.6	1.3	3.3
30	19	15	14	23	------	8.0	15	5.5	12	2.4	1.1	3.1
31	14	------	15	13	------	7.8	------	4.9	------	2.1	.81	------
TOTAL	249.9	781.9	929	422.8	470.2	352.0	638.3	300.9	112.0	329.1	141.70	220.37
MEAN	8.06	26.1	30.0	13.6	16.8	11.4	21.3	9.71	3.73	10.6	4.57	7.35
MAX	21	78	106	45	101	21	56	20	12	48	32	42
MIN	3.1	8.9	13	4.2	6.6	6.4	9.1	4.9	2.0	2.1	.68	.64
CFSM	1.63	5.26	6.05	2.74	3.39	2.30	4.29	1.96	.75	2.14	.92	1.48
IN.	1.87	5.86	6.97	3.17	3.53	2.64	4.79	2.26	.84	2.47	1.06	1.65

CAL YR 1972 TOTAL 5,480.56 MEAN 15.0 MAX 106 MIN .11 CFSM 3.02 IN 41.10
WTR YR 1973 TOTAL 4,948.17 MEAN 13.6 MAX 106 MIN .64 CFSM 2.74 IN 37.11

PEAK DISCHARGE (BASE, 75 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1115	3.98	83				
11-15	0200	4.09	91				
12-7	0245	4.50	134				
2-3	0545	4.35	125				

NOTE.--No gage-height record May 9 to June 25.

01109500 Kettle Brook at Worcester, Mass.

LOCATION.--Lat 42°13'55", long 71°50'07", Worcester County, on right bank 75 ft (23 m) downstream from Webster Street Bridge at Worcester, 1 mi (2 km) upstream from Beaver Brook.

DRAINAGE AREA.--31.3 mi^2 (81.1 km^2).

PERIOD OF RECORD.--August 1923 to current year. Prior to October 1950, published as Blackstone River at Worcester. Adjusted monthly discharge, in cubic feet per second per square mile, and runoff, in inches, published in water-supply papers for 1923-58, may be subject to error because of regulation upstream.

GAGE.--Water-stage recorder. Concrete control since Oct. 28, 1937. Datum of gage is 472.86 ft (144.128 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--50 years, 53.2 ft^3/s (1.507 m^3/s), 23.08 in/yr (586 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum daily discharge, 360 ft^3/s (10.2 m^3/s) Feb. 3; minimum, about 14 ft^3/s (0.40 m^3/s) about Oct. 5, 6.

Period of record: Maximum discharge, 3,970 ft^3/s (112 m^3/s) Aug. 19, 1955 (gage height, 12.78 ft or 3.895 m, from floodmark), from rating curve extended above 1,700 ft^3/s (48.1 m^3/s) on basis of computation of peak flow over dam; maximum daily, 2,720 ft^3/s (77.0 m^3/s) Aug. 19, 1955; minimum discharge, 0.2 ft^3/s (0.006 m^3/s) May 17, 1940.

REMARKS.--Records excellent except those for period of bypass flow through diversion tunnel, which are fair. City of Worcester diverts flow for municipal use from about 7.0 mi^2 (18.1 km^2) of drainage area above station; see table below for figures of diversion. Since October 1959, city diverts flow through tunnel, usually during periods of high flow; this flow included in daily discharge. Flow regulated by reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1301: 1927(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	119	163	62	44	52	76	61	176	22	27
2	15	29	126	188	100	44	163	64	52	151	50	22
3	15	52	103	166	360	46	178	61	42	105	80	20
4	15	45	99	142	290	70	147	64	37	79	83	20
5	14	37	121	130	210	76	149	59	35	105	55	20
6	14	33	135	110	160	70	147	52	33	143	36	23
7	45	30	205	86	140	66	126	47	30	111	28	23
8	120	35	186	76	130	135	99	43	27	77	28	21
9	75	168	181	65	115	168	85	54	24	58	43	20
10	50	161	181	56	110	135	117	65	23	46	32	20
11	35	103	171	56	100	101	173	89	21	42	30	20
12	30	76	149	54	86	86	147	98	21	64	27	19
13	34	63	133	51	76	81	108	83	55	46	24	18
14	32	77	128	48	70	71	88	66	75	37	30	21
15	33	173	114	47	73	60	76	58	43	36	39	36
16	29	144	117	44	66	57	68	67	32	35	42	28
17	26	108	108	45	66	86	64	60	26	31	34	23
18	24	90	99	49	61	176	61	59	23	27	30	57
19	23	72	88	57	54	151	60	54	22	24	26	62
20	22	125	86	92	55	105	54	52	21	22	25	38
21	21	185	85	92	56	79	49	149	20	42	25	29
22	21	160	101	85	56	66	46	153	58	45	24	26
23	21	112	114	140	54	59	45	111	120	33	23	33
24	21	85	108	140	52	54	54	81	74	26	22	35
25	20	76	103	120	50	51	49	65	50	23	21	43
26	19	124	103	100	48	60	54	56	38	23	21	33
27	18	188	103	86	47	71	98	51	50	29	20	28
28	19	168	99	80	46	63	158	57	83	34	21	26
29	33	135	86	83	------	53	139	72	76	33	20	24
30	30	108	76	74	------	47	100	67	162	29	19	22
31	26	------	81	68	------	43	------	69	------	22	22	------
TOTAL	916	2,985	3,708	2,793	2,793	2,474	2,954	2,202	1,434	1,754	1,002	837
MEAN	29.5	99.5	120	90.1	99.8	79.8	98.5	71.0	47.8	56.6	32.3	27.9
MAX	120	188	205	188	360	176	178	153	162	176	83	62
MIN	14	23	76	44	46	43	45	43	20	22	19	18
(†)	8.34	8.84	8.39	8.41	8.24	9.06	9.60	9.68	10.5	9.99	10.2	9.89

CAL YR 1972 TOTAL 32,030 MEAN 87.5 MAX 640 MIN 12 MEAN‡ 96.6 CFSM‡ 3.09 IN‡ 42.01
WTR YR 1973 TOTAL 25,852 MEAN 70.8 MAX 360 MIN 14 MEAN‡ 80.1 CFSM‡ 2.56 IN‡ 34.75

† Diversion, in cubic feet per second, for municipal supply of Worcester; records furnished by city of Worcester.
‡ Adjusted for diversion.
NOTE.--Bypass flow through diversion tunnel Jan. 22 to Mar. 8.

01110000 Quinsigamond River at North Grafton, Mass.

LOCATION.--Lat 42°13'49", long 71°42'41", Worcester County, on right bank 800 ft (250 m) downstream from dam at outlet of Hovey Pond at North Grafton and 0.3 mi (0.5 km) upstream from Bummett Brook.

DRAINAGE AREA.--25.5 mi² (66.0 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (102 m) from topographic map. Prior to Dec. 7, 1939, staff gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 41.3 ft³/s (1.170 m³/s), 21.99 in/yr (559 mm/yr).

EXTREMES.--Current year: Maximum discharge, 242 ft³/s (6.85 m³/s) Feb. 3 (gage height, 3.01 ft or 0.917 m); minimum daily, 5.7 ft³/s (0.16 m³/s) Sept. 14.

Period of record: Maximum discharge, 820 ft³/s (23.2 m³/s) Aug. 20, 1955 (gage height, 5.15 ft or 1.570 m); no flow Aug. 6-9, 22, 1966, caused by unusual regulation.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Some regulation by Lake Quinsigamond 2.3 mi (3.7 km) upstream and by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	35	105	98	66	40	61	63	49	92	22	17
2	8.3	42	104	115	78	40	116	69	47	90	25	16
3	7.9	59	106	102	217	41	133	65	43	78	43	14
4	6.9	46	91	98	215	56	115	57	37	67	45	13
5	6.6	54	98	95	177	65	121	54	35	70	37	12
6	6.3	57	105	88	148	59	99	51	33	76	30	11
7	37	46	170	80	124	56	103	46	31	66	25	13
8	69	47	157	71	109	65	106	44	31	58	22	12
9	56	101	148	65	100	72	103	44	33	50	22	10
10	45	104	137	60	89	68	104	50	30	45	20	8.8
11	38	91	117	57	81	76	104	57	27	40	18	7.9
12	34	86	113	54	73	70	85	65	26	44	25	7.0
13	34	75	105	50	68	57	92	58	37	39	24	6.1
14	32	79	80	48	62	54	93	53	51	40	21	5.7
15	34	109	80	46	63	53	69	49	44	50	20	7.3
16	23	96	88	44	64	53	62	53	39	38	40	7.3
17	21	83	85	44	62	64	60	49	40	51	35	6.4
18	19	77	74	46	58	103	69	50	35	26	31	15
19	18	78	70	60	55	100	64	50	30	24	26	28
20	16	112	67	93	53	83	55	46	28	22	24	23
21	15	105	66	88	53	89	60	72	27	30	22	20
22	16	96	74	81	54	76	59	85	35	40	20	18
23	19	98	79	112	54	67	49	73	53	33	18	20
24	19	96	77	113	51	62	49	67	48	28	16	21
25	20	78	75	101	46	53	47	58	41	24	15	23
26	24	98	74	90	44	49	49	52	37	21	14	20
27	24	113	77	82	44	54	63	48	39	26	13	17
28	24	91	74	87	43	53	89	47	50	35	13	16
29	40	88	70	102	------	61	79	53	65	29	12	14
30	46	81	65	85	------	63	67	51	80	26	11	12
31	39	------	69	75	------	56	------	57	------	23	12	------
TOTAL	809.0	2,421	2,900	2,430	2,351	1,958	2,425	1,736	1,199	1,361	721	421.5
MEAN	26.1	80.7	93.5	78.4	84.0	63.2	80.8	56.0	40.0	43.9	23.3	14.1
MAX	69	113	170	115	217	103	133	85	80	92	45	28
MIN	6.3	35	65	44	43	40	47	44	26	21	11	5.7
CFSM	1.02	3.16	3.67	3.07	3.29	2.48	3.17	2.20	1.57	1.72	.91	.55
IN.	1.18	3.53	4.23	3.54	3.43	2.86	3.54	2.53	1.75	1.99	1.05	.61

CAL YR 1972 TOTAL 24,711.7 MEAN 67.5 MAX 271 MIN 5.6 CFSM 2.65 IN 36.05
WTR YR 1973 TOTAL 20,732.5 MEAN 56.8 MAX 217 MIN 5.7 CFSM 2.23 IN 30.25

NOTE.--No gage-height record June 28 to Aug. 20. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01110500 Blackstone River at Northbridge, Mass.

LOCATION.--Lat 42°09'13", long 71°39'09", Worcester County, on left bank at Northbridge, 100 ft (30 m) downstream from Sutton Street Bridge and 3.0 mi (4.8 km) downstream from Quinsigamond River.

DRAINAGE AREA.--139 mi² (360 km²).

PERIOD OF RECORD.--October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 244 ft³/s (6.910 m³/s), 23.84 in/yr (606 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 2,590 ft³/s (73.3 m³/s) Feb. 3 (gage height, 8.19 ft or 2.496 m); minimum daily, 102 ft³/s (2.89 m³/s) Aug. 27.

Period of record: Maximum discharge, 16,900 ft³/s (479 m³/s) Aug. 20, 1955 (gage height, 16.74 ft or 5.102 m), from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of computation of flow over dam at gage height 13.7 ft (4.18 m) and slope-area measurement at gage height 16.74 ft (5.102 m); maximum gage height, 17.53 ft (5.343 m) Aug. 20, 1955 (backwater from debris); minimum daily discharge, 2 ft³/s (0.057 m³/s) Aug. 29, 1941, Sept. 5, 1942, Aug. 28, 1957.

Stage and discharge of flood of Aug. 20, 1955, are the greatest since at least 1900. Flood of Mar. 19, 1936, reached a stage of 13.7 ft (4.18 m) from floodmarks (discharge, 7,510 ft³/s or 213 m³/s, by computation of flow over dam 800 ft or 250 m above station).

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Daily discharge includes flow diverted from Nashua River basin and, at times during 1966 and 1967, from Quabbin Reservoir to Blackstone River basin for municipal supply of Worcester.

REVISIONS (WATER YEARS).--WSP 1301: 1940(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	140	586	818	291	208	314	413	260	787	175	216
2	120	151	567	1,110	360	204	888	329	240	588	273	133
3	129	256	490	849	2,180	213	938	302	235	468	484	125
4	125	219	463	699	1,670	331	782	324	230	391	448	124
5	125	188	571	663	1,160	382	897	281	225	560	320	131
6	123	179	637	594	912	340	785	257	224	548	250	144
7	440	171	1,540	493	745	310	665	246	220	432	221	159
8	691	190	1,120	467	647	443	581	237	199	335	200	129
9	428	1,040	1,020	392	597	622	529	260	185	292	227	118
10	286	791	992	336	541	573	685	319	184	244	199	117
11	227	575	863	301	466	500	808	311	180	227	197	136
12	203	452	741	277	411	454	684	419	180	359	220	143
13	227	362	691	262	379	407	574	380	384	264	180	136
14	222	469	633	247	334	329	511	300	445	241	175	125
15	233	934	567	232	323	310	428	260	311	227	261	200
16	203	752	552	219	358	301	373	310	242	219	257	148
17	173	594	507	201	321	480	344	288	220	201	216	136
18	159	485	467	204	295	814	327	278	199	185	186	288
19	152	415	428	241	277	695	334	277	187	178	169	316
20	150	794	406	515	271	566	308	245	177	175	166	211
21	140	951	395	574	273	459	284	570	166	301	162	174
22	133	714	478	451	281	399	273	607	232	255	154	156
23	136	551	548	812	281	354	270	519	516	214	151	174
24	131	470	482	841	269	327	313	415	350	183	145	178
25	127	415	463	673	255	307	280	317	271	171	139	233
26	127	591	459	548	245	368	290	264	241	163	139	176
27	129	954	486	465	240	367	478	235	279	235	102	160
28	125	763	459	409	228	338	638	247	493	233	136	152
29	173	609	399	383	------	310	597	328	459	201	132	141
30	171	494	345	362	------	301	509	290	877	211	130	130
31	152	------	352	327	------	292	------	270	------	183	132	------
TOTAL	6,089	15,669	18,707	14,965	14,610	12,304	15,687	10,098	8,611	9,271	6,346	4,909
MEAN	196	522	603	483	522	397	523	326	287	299	205	164
MAX	691	1,040	1,540	1,110	2,180	814	938	607	877	787	484	316
MIN	120	140	345	201	228	204	270	235	166	163	102	117
MEAN†	173	514	602	470	511	386	512	315	272	283	183	132
CFSM†	1.24	3.70	4.33	3.38	3.68	2.78	3.68	2.27	1.96	2.04	1.32	.95
IN.†	1.44	4.12	5.00	3.90	3.83	3.20	4.11	2.61	2.19	2.35	1.52	1.06

CAL YR 1972 TOTAL 165,080 MEAN 451 MAX 2,400 MIN 100 MEAN† 438 CFSM† 3.15 IN† 42.93
WTR YR 1973 TOTAL 137,266 MEAN 376 MAX 2,180 MIN 102 MEAN† 362 CFSM† 2.60 IN† 35.33

† Adjusted for diversion from Nashua River basin to Blackstone River basin for municipal supply of Worcester. Records of diversion furnished by city of Worcester.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01111200 West River below West Hill Dam, near Uxbridge, Mass.

LOCATION.--Lat 42°06'17", long 71°36'28", Worcester County, on right bank 250 ft (76 m) downstream from West Hill Dam, 2.2 mi (3.5 km) northeast of Uxbridge, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--27.9 mi^2 (72.3 km^2).

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 240 ft (73 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 43.1 ft^3/s (1.221 m^3/s), 20.98 in/yr (533 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 344 ft^3/s (9.74 m^3/s) Feb. 5 (gage height, 3.34 ft or 1.018 m); minimum, 5.7 ft^3/s (0.16 m^3/s) Sept. 14; minimum daily, 5.7 ft^3/s (0.16 m^3/s) Sept. 14.

Period of record: Maximum discharge, about 370 ft^3/s (10.5 m^3/s) Mar. 26, 1968 (gage height, about 3.45 ft or 1.05 m); no flow for part of Aug. 17, 1967 (caused by unusual regulation); minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) Sept. 12, 1963, Aug. 12, 1965.

REMARKS.--Records good. Flow regulated by West Hill Reservoir (usable capacity, 542,000,000 ft^3 or 15,350,000 m^3). See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	16	117	112	56	41	53	84	52	160	22	8.2
2	6.5	16	145	177	57	41	95	67	47	159	21	8.5
3	6.2	24	145	214	91	44	157	58	43	118	25	8.2
4	6.2	29	129	162	164	50	145	56	36	75	39	7.3
5	6.2	28	131	137	276	67	147	51	34	66	40	7.0
6	6.0	27	147	119	336	71	153	45	31	81	27	9.1
7	14	26	117	95	281	70	139	44	28	73	22	12
8	44	25	189	81	168	70	113	42	27	54	19	9.7
9	53	86	239	65	115	86	95	42	24	42	16	8.5
10	50	173	236	56	98	97	89	56	22	34	15	7.3
11	37	170	261	51	88	88	117	61	21	29	14	7.0
12	26	135	259	48	73	81	125	83	19	35	14	6.5
13	21	93	224	43	67	74	106	93	25	38	13	6.0
14	20	78	151	40	60	70	86	78	79	31	12	5.7
15	17	135	121	38	68	64	76	64	96	28	15	8.2
16	17	170	110	38	76	63	68	60	72	28	28	9.4
17	16	153	106	41	73	67	63	61	59	26	28	8.8
18	15	119	97	49	61	102	58	57	50	22	23	8.2
19	14	95	86	52	57	121	56	63	38	20	19	13
20	14	100	83	78	56	110	50	56	32	18	17	14
21	14	166	83	108	56	91	46	76	26	22	15	12
22	13	177	86	113	57	78	44	108	20	37	13	9.9
23	13	153	112	131	58	68	43	97	25	40	12	11
24	13	115	121	155	57	63	51	79	31	33	11	13
25	13	93	115	139	53	57	56	64	28	26	10	22
26	12	98	108	112	50	57	55	55	28	22	9.5	22
27	12	155	110	91	48	65	83	49	25	20	9.1	17
28	11	173	113	81	42	65	119	46	43	31	8.7	14
29	13	162	104	76	------	61	127	53	59	36	7.9	12
30	17	117	89	73	------	57	108	53	110	31	7.3	10
31	17	------	81	68	------	53	------	51	------	26	7.3	------
TOTAL	544.1	3,107	4,215	2,843	2,742	2,192	2,723	1,952	1,230	1,461	539.8	315.5
MEAN	17.6	104	136	91.7	97.9	70.7	90.8	63.0	41.0	47.1	17.4	10.5
MAX	53	177	261	214	336	121	157	108	110	160	40	22
MIN	6.0	16	81	38	42	41	43	42	19	18	7.3	5.7
(†)	1.7	5.8	4.1	3.7	2.6	3.0	7.0	.9	6.2	2.0	1.1	1.3
MEAN‡	17.8	105	135	91.6	97.5	70.9	92.3	60.7	43.1	45.5	17.1	10.6
CFSM‡	.64	3.76	4.84	3.28	3.49	2.54	3.31	2.18	1.54	1.63	.61	.38
IN.‡	.74	4.21	5.59	3.79	3.64	2.93	3.69	2.51	1.72	1.88	.71	.42

CAL YR 1972 TOTAL 29,620.4 MEAN 80.9 MAX 342 MIN 6.0 MEAN‡ 81.0 CFSM‡ 2.90 IN‡ 39.52
WTR YR 1973 TOTAL 23,864.4 MEAN 65.4 MAX 336 MIN 5.7 MEAN‡ 65.4 CFSM‡ 2.34 IN‡ 31.82

† Monthend contents, in millions of cubic feet, in West Hill Reservoir.
‡ Adjusted for change in contents in West Hill Reservoir.

01111300 Nipmuc River near Harrisville, R.I.

LOCATION.--Lat 41°58'52", long 71°41'11", Providence County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.2 mi (1.9 km) northwest of Harrisville.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

PERIOD OF RECORD.--March 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 340 ft (104 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 27.1 ft³/s (0.767 m³/s), 23.00 in/yr (584 mm/yr).

EXTREMES.--Current year: Maximum discharge, 592 ft³/s (16.8 m³/s) Feb. 3 (gage height, 6.53 ft or 1.990 m); minimum, 1.7 ft³/s (0.048 m³/s) Sept. 4-6.

Period of record: Maximum discharge, 1,020 ft³/s (28.9 m³/s) Mar. 18, 1968 (gage height, 7.42 ft or 2.262 m), from rating curve extended above 530 ft³/s (15.0 m³/s); minimum, 0.09 ft³/s (0.003 m³/s) Sept. 10, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	15	137	217	29	24	35	45	24	105	5.0	1.8
2	5.3	17	106	173	95	27	146	40	23	25	5.0	1.8
3	4.5	38	72	96	395	29	94	37	20	19	6.0	1.8
4	4.4	54	59	76	151	44	66	38	18	17	9.0	1.8
5	4.1	26	151	75	99	47	125	36	18	19	8.0	1.7
6	4.1	23	158	62	74	38	75	33	22	20	6.0	16
7	96	20	344	52	65	36	55	30	20	18	4.5	31
8	105	26	159	46	61	55	48	28	16	14	3.4	11
9	38	284	177	42	56	65	43	36	14	12	3.1	6.4
10	25	136	141	40	50	47	86	52	11	10	2.9	4.4
11	20	72	106	38	43	40	99	52	9.0	9.0	2.8	3.7
12	17	58	83	37	37	39	61	60	8.0	12	2.6	2.9
13	17	48	87	36	36	37	51	43	20	10	2.6	2.4
14	16	105	84	35	30	34	45	35	49	8.5	2.4	2.2
15	15	214	66	33	45	32	40	31	23	11	12	6.9
16	15	104	69	30	49	31	37	37	14	12	21	8.0
17	14	69	57	26	42	56	36	34	12	10	11	5.1
18	13	56	47	28	39	82	35	34	11	8.5	7.4	6.4
19	12	49	46	32	36	52	33	35	10	7.5	5.5	13
20	14	164	48	60	34	41	31	27	9.0	7.0	4.7	8.5
21	13	133	47	50	34	36	28	92	9.0	9.0	4.0	6.0
22	12	78	80	55	36	35	27	61	9.5	10	3.7	4.7
23	12	58	107	100	36	31	27	42	16	8.5	3.4	6.0
24	12	51	94	75	30	30	32	35	14	7.6	3.1	7.4
25	11	48	75	53	28	29	28	30	9.5	6.8	2.9	16
26	11	143	73	44	27	36	45	28	9.0	6.2	2.4	12
27	10	163	77	40	25	38	128	27	13	6.6	2.2	8.0
28	9.9	89	66	40	24	32	138	29	35	6.0	2.2	6.0
29	15	69	51	40	------	28	76	36	45	5.6	2.2	4.7
30	21	56	44	36	------	27	54	27	131	5.3	2.0	4.4
31	18	------	45	30	------	27	------	27	------	5.2	1.8	------
TOTAL	589.7	2,446	2,956	1,779	1,712	1,205	1,826	1,195	642.0	431.3	154.6	212.0
MEAN	19.0	81.5	95.4	57.4	61.1	38.9	60.9	38.5	21.4	13.9	4.99	7.07
MAX	105	284	344	217	395	82	146	92	131	105	21	31
MIN	4.1	15	44	28	24	24	27	27	8.0	5.2	1.8	1.7
CFSM	1.19	5.09	5.96	3.59	3.82	2.43	3.81	2.41	1.34	.87	.31	.44
IN.	1.37	5.69	6.87	4.14	3.98	2.80	4.25	2.78	1.49	1.00	.36	.49

CAL YR 1972 TOTAL 18,760.9 MEAN 51.3 MAX 344 MIN 1.8 CFSM 3.21 IN 43.62
WTR YR 1973 TOTAL 15,148.6 MEAN 41.5 MAX 395 MIN 1.7 CFSM 2.59 IN 35.22

PEAK DISCHARGE (BASE, 270 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1000	5.77	364	1-1	1530	5.38	286
11-15	0130	5.35	281	2-3	0230	6.53	592
12-7	0230	6.20	479				

NOTE.--No gage-height record July 2 to Aug. 7.

01111400 Chepachet River at Chepachet, R.I.

LOCATION.--Lat 41°55'22", long 71°39'29", Providence County, on right bank 10 ft (3 m) downstream from Mower Pond Outlet, 450 ft (150 m) downstream from old gristmill dam, and 0.9 mi (1.4 km) northeast of Chepachet.

DRAINAGE AREA.--17.4 mi² (45.1 km²).

PERIOD OF RECORD.--October 1964 to March 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 355 ft (108 m) from topographic map.

AVERAGE DISCHARGE.--8 years (1965-72), 31.4 ft³/s (0.889 m³/s), 24.51 in/yr (623 mm/yr).

EXTREMES.--Maximum discharge during period October 1972 to March 1973, 375 ft³/s (10.6 m³/s) Feb. 3 (gage height, 7.18 ft or 2.188 m); minimum, 11 ft³/s (0.31 m³/s) Oct. 4-7.

Period of record: Maximum discharge, 1,080 ft³/s (30.6 m³/s) Mar. 18, 1968 (gage height, 8.85 ft or 2.697 m), from rating curve extended above 380 ft³/s (10.8 m³/s) on basis of computation of peak flow over dam 450 ft (150 m) upstream; minimum, 1.9 ft³/s (0.054 m³/s) Aug. 31, Sept. 1, 1965.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Occasional regulation by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR
1	14	36	107	168	48	35
2	13	40	102	163	103	36
3	12	60	91	133	283	37
4	11	52	81	110	195	49
5	11	46	124	107	153	53
6	11	43	140	94	119	48
7	89	42	219	75	90	47
8	128	70	162	62	71	62
9	93	170	158	57	76	74
10	69	120	135	54	65	68
11	58	90	116	53	58	54
12	54	75	102	51	53	53
13	54	70	98	50	50	
14	50	110	92	48	48	
15	52	135	84	48	55	
16	50	99	96	48	57	
17	47	85	89	43	52	
18	44	75	77	38	48	
19	45	68	70	37	45	
20	47	116	72	61	44	
21	44	115	72	50	45	
22	43	99	94	43	45	
23	42	87	109	117	44	
24	40	76	110	85	42	
25	38	69	101	64	40	
26	35	108	98	59	39	
27	34	122	98	55	37	
28	32	103	94	56	36	
29	40	93	82	66	------	
30	45	81	71	62	------	
31	41	------	73	54	------	
TOTAL	1,386	2,555	3,217	2,215	2,047	
MEAN	44.7	85.2	104	71.5	73.1	
MAX	128	170	219	168	283	
MIN	11	36	70	37	36	

CAL YR 1972 TOTAL 22,593.5 MEAN 61.7 MAX 296 MIN 9.1

PEAK DISCHARGE (BASE, 160 ft³/s)

NOTE.--No gage-height record Oct. 29 to Nov. 14.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	-	-	†210				
†11-14	-	-	†180				
12-7	0115	6.94	254				
1-1	1215	6.58	196				
2-3	0230	7.18	375				

† About.

01111410 Chepachet River at Gazzaville, R.I.

LOCATION.--Lat 41°56'27", long 71°38'55", Providence County, on right bank at Gazzaville, 600 ft (200 m) upstream from bridge on Gazza Road, 1.2 mi (1.9 km) south of Oakland, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--19.2 mi^2 (49.7 km^2).

PERIOD OF RECORD.--March to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (102 m) from topographic map.

EXTREMES.--Maximum discharge during period, 264 ft^3/s (7.48 m^3/s) July 1 (gage height, 3.90 ft or 1.189 m); minimum, 8.1 ft^3/s (0.23 m^3/s) Sept. 4.

REMARKS.--Records excellent. Occasional regulation by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, MARCH TO SEPTEMBER 1973

DAY	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		47	77	31	222	16	14
2		126	66	29	135	16	12
3		116	60	27	85	17	12
4		100	57	26	37	17	10
5		141	52	30	35	16	12
6		115	49	32	35	15	33
7		89	46	28	29	15	33
8		75	45	26	23	14	18
9		68	56	24	22	14	20
10		98	67	23	21	13	32
11		127	62	20	21	13	23
12		100	58	18	22	14	18
13		81	50	37	20	14	15
14		69	46	47	19	14	14
15	46	61	43	26	22	25	22
16	46	55	45	22	26	26	19
17	65	51	42	21	23	22	16
18	90	48	44	20	21	22	17
19	67	46	43	19	20	21	20
20	59	44	40	19	19	19	17
21	53	42	91	18	21	18	15
22	50	41	75	18	23	17	14
23	48	40	55	20	21	16	16
24	46	43	47	20	19	16	17
25	44	40	43	20	18	15	20
26	49	60	40	19	17	14	18
27	51	125	38	20	17	14	16
28	46	147	36	30	17	14	15
29	43	117	32	56	16	14	14
30	42	94	29	129	17	13	13
31	41	------	30	------	17	13	------
TOTAL		2,406	1,564	875	1,060	507	535
MEAN		80.2	50.5	29.2	34.2	16.4	17.8
MAX		147	91	129	222	26	33
MIN		40	29	18	16	13	10
CFSM		4.18	2.63	1.52	1.78	.85	.93
IN.		4.66	3.03	1.70	2.05	.98	1.04

01111500 Branch River at Forestdale, R.I.

LOCATION.--Lat 41°59'47", long 71°33'47", Providence County, on left bank 20 ft (6 m) upstream from abandoned bridge site, 400 ft (100 m) downstream from milldam at Forestdale, 1 mi (2 km) east of Slatersville, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--91.2 mi² (236.2 km²).

PERIOD OF RECORD.--September to December 1909 and January 1912 to July 1913 (gage heights only; published as "at Branch Village"), January 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m) from topographic map. Prior to July 28, 1913, nonrecording gage at site 1 mi (2 km) downstream at different datum.

AVERAGE DISCHARGE.--33 years, 165 ft³/s (4.673 m³/s), 24.57 in/yr (624 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,150 ft³/s (60.9 m³/s) Feb. 3 (gage height, 7.90 ft or 2.408 m); minimum daily, 24 ft³/s (0.68 m³/s) Sept. 5.

Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Mar. 18, 1968 (gage height, 11.90 ft or 3.627 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of computation of peak flow over dam 400 ft (100 m) above station; minimum daily, 5.2 ft³/s (0.15 m³/s) Oct. 7, 1948.

Maximum discharge since at least 1886, about 5,800 ft³/s (164 m³/s) Mar. 19, 1936, by computation of flow over dam 1 mi (2 km) above station.

REMARKS.--Records excellent. Prior to 1957, flow regulated by mills and reservoirs above station.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	111	640	834	246	136	190	348	138	767	67	36
2	67	109	624	951	392	139	574	285	127	451	46	32
3	63	154	499	664	1,810	153	630	270	128	275	55	29
4	55	180	457	576	1,020	184	457	266	102	197	61	26
5	43	163	772	486	678	251	624	252	107	179	55	24
6	42	155	904	427	569	210	534	234	115	227	43	76
7	382	150	1,520	348	500	191	399	220	118	237	39	236
8	603	144	1,030	296	461	220	367	207	104	201	37	128
9	345	774	932	262	460	339	337	214	94	134	34	80
10	246	997	836	225	366	286	490	298	84	85	33	70
11	209	600	692	216	327	243	656	262	76	73	40	67
12	200	472	564	209	294	228	495	283	68	81	41	53
13	197	408	540	196	283	217	415	236	86	91	37	45
14	181	380	520	177	237	197	367	197	208	69	33	41
15	160	894	450	177	269	185	338	180	150	77	77	71
16	151	849	460	178	303	183	294	192	104	99	123	75
17	151	577	400	181	254	232	283	184	81	90	96	62
18	146	468	350	196	222	456	235	183	72	77	73	71
19	152	415	330	198	216	350	218	185	68	68	62	96
20	149	440	320	321	213	273	205	160	65	60	56	91
21	128	857	330	305	208	205	191	398	63	64	52	89
22	119	618	450	231	205	186	185	403	63	84	48	84
23	117	434	500	515	199	177	174	298	76	73	45	93
24	112	378	540	493	193	173	193	237	77	61	41	100
25	109	337	460	340	169	167	199	211	67	54	40	120
26	113	319	440	328	158	179	232	195	61	50	36	113
27	112	657	447	303	146	216	619	185	71	52	33	90
28	102	576	445	304	135	187	753	186	125	52	34	70
29	114	505	390	340	------	159	559	206	215	50	30	64
30	133	444	343	314	------	161	422	158	514	57	29	58
31	125	------	329	294	------	160	------	140	------	68	29	------
TOTAL	4,895	13,596	17,514	10,855	10,533	6,653	11,565	7,256	3,423	4,203	1,505	2,290
MEAN	158	453	565	350	376	215	386	234	114	136	48.5	76.3
MAX	603	997	1,520	951	1,810	456	753	403	514	767	123	236
MIN	42	109	320	177	135	136	174	140	61	50	29	24
CFSM	1.73	4.97	6.20	3.84	4.12	2.36	4.23	2.57	1.25	1.49	.53	.84
IN.	1.99	5.54	7.14	4.43	4.30	2.71	4.72	2.96	1.40	1.71	.61	.93

CAL YR 1972 TOTAL 111,985 MEAN 306 MAX 1,740 MIN 36 CFSM 3.36 IN 45.68
WTR YR 1973 TOTAL 94,276 MEAN 258 MAX 1,810 MIN 24 CFSM 2.83 IN 38.45

PEAK DISCHARGE (BASE, 880 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	2245	6.25	1,330	12-7	1130	7.10	1,730
11-15	1830	5.74	1,100	1-1	2230	5.91	1,170
11-21	0930	5.33	932	2-3	1000	7.90	2,150
12-5	1800	5.25	920				

01112500 Blackstone River at Woonsocket, R.I.

LOCATION.--Lat 42°00'22", long 71°30'13", Providence County, on right bank at Woonsocket, 50 ft (15 m) upstream from Peters River pressure conduit. Records include flow of Peters River.

DRAINAGE AREA.--416 mi^2 (1,077 km^2).

PERIOD OF RECORD.--February 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 107.42 ft (32.742 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 725 ft^3/s (20.53 m^3/s), 23.67 in/yr (601 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 6,940 ft^3/s (197 m^3/s) Feb. 3 (gage height, 9.22 ft or 2.810 m); minimum daily, 177 ft^3/s (5.01 m^3/s) Sept. 5.

Period of record: Maximum discharge, 32,900 ft^3/s (932 m^3/s) Aug. 19, 1955 (gage height, 21.8 ft or 6.64 m, from floodmarks), from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of slope-area measurement of peak flow, affected by failure of Horseshoe Dam on Mill River; minimum daily, 21 ft^3/s (0.59 m^3/s) Aug. 11, 1934, flow diverted around station in Hamlet Trench not included.

Maximum discharge since at least 1645, that of Aug. 19, 1955.

REMARKS.--Records excellent. Flow regulated by powerplants, by West Hill Reservoir since May 1961, and by other reservoirs above station. Extremes and figures of daily discharge include flow diverted from Nashua River basin and, at times since January 1966, from Quabbin Reservoir for supply of Worcester, Mass., and, prior to July 1964, flow diverted around station in Hamlet Trench. No diversion from Quabbin Reservoir during year. See table below for figures of diversion and table with station 01111200 for monthend contents of West Hill Reservoir.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M). WSP 871: 1938. WSP 1051: 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	375	2,200	2,670	966	651	820	1,400	816	2,950	305	272
2	233	384	2,360	3,710	1,400	656	2,160	1,200	718	2,130	306	236
3	223	627	1,990	2,790	5,880	703	2,630	1,090	632	1,490	681	195
4	221	718	1,820	2,340	4,970	899	2,140	1,090	569	1,130	687	179
5	208	617	2,530	2,150	3,220	1,180	2,520	1,020	541	1,070	568	177
6	208	577	2,840	1,930	2,660	1,060	2,310	932	558	1,270	426	314
7	779	546	5,060	1,540	2,300	965	1,870	861	539	1,200	358	560
8	2,150	644	4,100	1,470	2,020	1,120	1,620	830	487	967	315	373
9	1,330	2,960	3,510	1,320	1,860	1,640	1,430	880	437	716	310	269
10	873	3,130	3,360	1,160	1,590	1,480	1,750	1,160	391	585	310	221
11	679	2,140	2,920	1,010	1,370	1,260	2,460	1,130	369	509	295	214
12	609	1,680	2,560	979	1,210	1,170	2,070	1,410	349	592	307	213
13	627	1,400	2,380	912	1,130	1,120	1,720	1,280	555	604	266	205
14	576	1,660	2,290	842	1,010	991	1,480	1,080	1,210	491	246	195
15	562	3,180	2,000	818	1,120	918	1,310	952	892	489	403	283
16	510	2,670	2,030	824	1,270	896	1,200	1,010	644	510	605	310
17	465	2,070	1,840	800	1,080	1,130	1,130	979	513	430	487	241
18	421	1,750	1,750	794	935	1,970	1,050	952	439	415	395	266
19	424	1,500	1,590	899	861	1,790	1,030	972	411	345	328	574
20	420	2,280	1,540	1,470	868	1,480	972	854	373	332	300	421
21	387	3,180	1,510	1,660	889	1,200	880	1,690	352	386	291	353
22	360	2,370	1,720	1,300	908	1,070	830	1,950	350	550	268	312
23	346	1,910	2,160	2,210	906	958	800	1,510	659	431	252	350
24	341	1,630	2,070	2,440	850	888	919	1,250	615	372	238	382
25	330	1,460	1,920	1,890	786	828	874	1,060	487	310	228	510
26	325	1,910	1,850	1,530	752	874	945	941	421	299	213	455
27	323	3,130	1,890	1,350	730	1,030	1,880	859	436	293	205	363
28	319	2,540	1,870	1,270	677	899	2,390	837	794	418	179	317
29	389	2,130	1,670	1,380	------	808	2,100	1,010	1,050	363	190	303
30	474	1,850	1,480	1,270	------	763	1,710	901	1,990	368	190	271
31	423	------	1,420	1,150	------	747	------	840	------	352	192	------
TOTAL	15,795	53,018	70,230	47,878	44,238	33,144	47,000	33,930	18,597	22,367	10,344	9,334
MEAN	510	1,767	2,265	1,544	1,580	1,069	1,567	1,095	620	722	334	311
MAX	2,150	3,180	5,060	3,710	5,880	1,970	2,630	1,950	1,990	2,950	687	574
MIN	208	375	1,420	794	677	651	800	830	349	293	179	177
(†)	23.1	8.81	1.34	12.4	10.8	10.8	10.8	10.8	14.8	16.4	21.8	31.3
MEAN‡	487	1,760	2,263	1,532	1,569	1,058	1,557	1,081	607	704	312	280
CFSM‡	1.17	4.23	5.44	3.68	3.77	2.54	3.74	2.60	1.46	1.69	.75	.67
IN.‡	1.35	4.72	6.27	4.25	3.93	2.93	4.18	3.00	1.63	1.95	.86	.75

CAL YR 1972 TOTAL 483,789 MEAN 1,322 MAX 6,660 MIN 172 MEAN‡ 1,309 CFSM‡ 3.15 IN‡ 42.85
WTR YR 1973 TOTAL 405,875 MEAN 1,112 MAX 5,880 MIN 177 MEAN‡ 1,098 CFSM‡ 2.64 IN‡ 35.82

PEAK DISCHARGE (BASE, 3,400 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	2215	6.88	4,280	1-2	1130	6.68	4,080
11-15	1400	6.09	3,490	2-3	1645	9.22	6,940
11-21	1230	6.13	3,530	7-1	1715	6.23	3,630
12-7	1545	8.27	5,800				

† Diversion, in cubic feet per second, from Nashua River basin for municipal supply of Worcester, Mass.; records furnished by city of Worcester.

‡ Adjusted for diversion and for change in contents in West Hill Reservoir.

01112700 Blackstone River tributary at Woonsocket, R.I.

LOCATION.--Lat 42°00'18", long 71°29'23", Providence County, on left bank at edge of parking lot in Cass Park just off Cass Avenue, at Woonsocket, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--2.31 mi^2 (5.98 km^2).

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (46 m) from topographic map. Prior to Dec 8, 1970, at site 0.25 mi (0.40 km) upstream at different datum.

AVERAGE DISCHARGE.--8 years, 3.45 ft^3/s (0.098 m^3/s), 20.28 in/yr (515 mm/yr).

EXTREMES.--Current year: Maximum discharge, 186 ft^3/s (5.27 m^3/s) Sept. 6 (gage height, 3.39 ft or 1.033 m); minimum, 0.19 ft^3/s (0.005 m^3/s) Sept. 4-6.

Period of record: Maximum discharge, 285 ft^3/s (8.07 m^3/s) Mar. 18, 1968 (gage height, 3.52 ft or 1.073 m, site and datum then in use), from rating curve extended above 52 ft^3/s (1.47 m^3/s) on basis of slope-area measurement at gage height 3.35 ft (1.021 m); no flow for many days during 1965, 1966, 1969, 1970.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter record).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	1.8	15	32	3.6	2.1	7.0	4.0	2.9	6.2	.30	.50
2	.68	2.4	8.9	16	42	2.2	13	3.6	2.5	3.2	.94	.33
3	.64	3.0	7.2	9.7	42	2.2	7.7	3.6	2.2	2.1	5.2	.30
4	.60	2.2	7.7	9.7	11	4.8	12	3.6	2.1	2.0	2.0	.19
5	.60	2.2	33	9.1	8.0	3.6	10	3.2	2.1	2.6	.94	.19
6	.64	2.0	38	7.5	6.6	3.2	7.2	2.9	2.0	2.5	.61	8.3
7	18	1.7	40	5.9	6.2	3.6	5.8	2.6	2.0	1.8	.41	2.0
8	6.7	12	18	5.1	6.0	6.0	5.2	2.5	2.0	1.4	.33	1.1
9	3.0	32	22	4.8	6.2	4.8	4.7	5.6	1.8	1.1	.30	.55
10	2.1	14	14	4.6	5.0	4.0	16	4.8	1.5	.94	.24	.38
11	1.7	7.5	11	4.2	4.5	3.5	9.2	5.4	1.5	2.0	.41	.30
12	2.2	6.1	9.4	4.0	4.0	3.3	6.6	4.2	1.5	2.0	.36	.24
13	1.8	5.2	11	3.7	3.8	3.5	5.6	3.2	11	1.0	.30	.22
14	1.7	24	9.1	3.6	3.5	3.2	5.0	2.6	3.5	1.0	.27	.61
15	1.8	21	7.7	3.6	7.0	3.0	4.2	2.8	1.9	2.5	7.0	2.4
16	1.4	12	9.7	3.7	5.0	3.0	4.0	3.5	1.4	1.5	2.1	.83
17	1.4	8.6	7.5	3.7	3.8	6.6	3.8	2.6	1.3	1.1	1.4	.44
18	1.3	7.2	6.4	4.0	3.3	5.0	3.8	4.0	1.2	.83	1.0	2.5
19	1.7	6.1	5.9	4.2	3.0	4.2	3.8	3.0	1.0	.72	.72	1.1
20	1.4	27	6.9	8.0	3.0	3.5	3.8	3.5	1.0	.55	.94	.66
21	1.5	13	6.2	5.3	3.3	3.3	3.3	12	1.4	1.8	.61	.41
22	1.4	8.9	13	5.9	3.5	3.0	3.2	6.8	1.5	.94	.61	.33
23	1.4	6.7	12	13	3.3	2.8	3.3	4.2	1.1	.61	.50	.94
24	1.3	6.7	11	6.9	3.0	2.6	4.0	3.5	.89	.44	.41	1.1
25	1.2	5.9	9.4	5.1	2.8	2.6	2.9	3.2	.83	.41	.36	.94
26	1.2	22	9.4	4.4	2.8	4.2	8.7	3.0	.78	.44	.33	.66
27	1.2	14	10	4.2	2.5	3.2	11	2.9	2.6	.44	.41	.44
28	1.7	8.9	8.8	4.6	2.2	2.9	9.2	4.5	2.5	.41	.38	.38
29	3.4	7.2	7.5	8.0	------	2.8	5.8	3.6	3.2	.38	.33	.36
30	2.7	7.2	6.7	5.5	------	2.6	4.7	2.9	14	.36	.30	.33
31	2.1	------	8.2	4.4	------	2.6	------	4.3	------	.30	.78	------
TOTAL	69.33	298.5	390.6	214.4	200.9	107.9	194.5	122.1	75.20	43.57	30.79	29.03
MEAN	2.24	9.95	12.6	6.92	7.18	3.48	6.48	3.94	2.51	1.41	.99	.97
MAX	18	32	40	32	42	6.6	16	12	14	6.2	7.0	8.3
MIN	.60	1.7	5.9	3.6	2.2	2.1	2.9	2.5	.78	.30	.24	.19
CFSM	.97	4.31	5.45	3.00	3.11	1.51	2.81	1.71	1.09	.61	.43	.42
IN.	1.12	4.81	6.29	3.45	3.24	1.74	3.13	1.97	1.21	.70	.50	.47

CAL YR 1972 TOTAL 2,270.54 MEAN 6.20 MAX 72 MIN .30 CFSM 2.68 IN 36.56
WTR YR 1973 TOTAL 1,776.82 MEAN 4.87 MAX 42 MIN .19 CFSM 2.11 IN 28.61

PEAK DISCHARGE (BASE, 55 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	0945	2.77	62	1-23	0015	2.74	59
11-8	2230	2.83	71	2-2	2100	3.26	152
11-14	1600	2.71	55	4-10	1100	2.84	72
11-20	0515	2.85	74	6-13	1615	2.95	90
11-26	1030	2.77	62	6-30	0515	2.80	66
12-6	1945	3.10	117	8-3	2045	2.87	77
1-1	0500	2.80	66	9-6	1400	3.39	186

01114000 Moshassuck River at Providence, R.I.

LOCATION.--Lat 41°50'02", long 71°24'42", Providence County, on left bank 800 ft (250 m) upstream fom bridge on U.S. Highway 44, at Providence, and 0.5 mi (0.8 km) above mouth.

DRAINAGE AREA.--23.1 mi² (59.8 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.31 ft (2.228 m) above mean sea level. Since Mar. 10, 1972, stage record obtained at temporary site 200 ft upstream at same datum.

AVERAGE DISCHARGE.--10 years, 38.6 ft³/s (1.093 m³/s), 22.69 in/yr (576 mm/yr).

EXTREMES.--Current year: Maximum discharge, 980 ft³/s (27.8 m³/s) Feb. 2 (gage height, 6.80 ft or 2.073 m), from rating curve extended above 90 ft³/s (2.55 m³/s); minimum not determined; minimum daily, 10 ft³/s (0.28 m³/s) Aug. 13, 14.

Period of record: Maximum discharge, 2,390 ft³/s (67.7 m³/s) Mar. 18, 1968 (gage height, 4.34 ft or 1.323 m), from rating curve extended above 460 ft³/s (13.0 m³/s); maximum gage height, 4.40 ft (1.341 m) Aug. 1, 1967; minimum 1.3 ft³/s (0.037 m³/s) Aug. 23, 1970; minimum daily, 1.7 ft³/s (0.048 m³/s) Aug. 10, 1970.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Occasional regulation at low flow.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	29	191	222	40	32	89	62	38	89	16	16
2	18	38	108	129	224	33	226	56	32	48	25	14
3	17	53	85	91	407	33	102	52	28	34	23	13
4	17	39	96	100	144	74	121	53	31	35	27	13
5	17	33	267	92	96	56	149	46	31	37	16	13
6	18	29	313	77	78	45	87	42	31	39	14	130
7	192	29	364	57	71	44	69	40	33	27	13	55
8	92	120	262	54	69	68	69	39	30	23	12	30
9	45	323	222	48	69	63	62	87	26	20	12	20
10	32	137	167	45	56	49	203	85	22	18	11	17
11	28	89	135	45	52	45	146	112	20	46	11	17
12	33	76	111	42	45	45	85	77	20	28	11	16
13	33	65	119	39	45	42	72	55	142	22	10	16
14	26	246	103	37	43	39	63	46	126	25	10	25
15	31	246	93	38	109	37	55	44	46	86	100	40
16	25	128	163	39	65	37	52	54	28	45	50	30
17	26	103	92	40	49	65	49	43	24	29	35	21
18	21	88	77	41	36	64	49	62	22	23	31	40
19	33	77	81	42	41	48	64	52	21	20	30	31
20	31	328	105	58	42	44	61	48	21	19	34	27
21	25	178	93	45	43	42	50	161	20	36	28	23
22	23	116	240	49	43	38	43	74	23	27	30	21
23	21	102	172	131	42	35	41	56	21	20	26	40
24	21	89	140	66	38	34	45	46	18	19	22	30
25	20	84	112	51	34	35	41	41	17	19	20	25
26	18	222	103	47	35	58	129	38	17	20	18	21
27	18	163	169	42	34	47	198	37	40	22	17	18
28	21	111	96	44	31	35	147	58	41	21	16	17
29	87	102	80	126	------	33	87	55	42	19	15	16
30	50	91	72	63	------	33	69	38	188	19	14	15
31	38	------	87	52	------	34	------	42	------	27	19	------
TOTAL	1,098	3,536	4,443	2,052	2,079	1,387	2,723	1,801	1,199	962	716	810
MEAN	35.4	118	143	66.2	74.3	44.7	90.8	58.1	40.0	31.0	23.1	27.0
MAX	192	328	364	222	407	74	226	161	188	89	100	130
MIN	17	29	72	37	31	32	41	37	17	18	10	13
CFSM	1.53	5.11	6.19	2.87	3.22	1.94	3.93	2.52	1.73	1.34	1.00	1.17
IN.	1.77	5.69	7.15	3.30	3.35	2.23	4.39	2.90	1.93	1.55	1.15	1.30

CAL YR 1972 TOTAL 24,113 MEAN 65.9 MAX 400 MIN 11 CFSM 2.85 IN 38.83
WTR YR 1973 TOTAL 22,806 MEAN 62.5 MAX 407 MIN 10 CFSM 2.71 IN 36.73

PEAK DISCHARGE (BASE, 500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1045	5.68	533	2-2	2030	6.80	980
11-8	2330	5.89	596	4-10	1145	6.15	653
11-14	1800	5.67	512	6-13	1700	6.56	850
11-20	0700	6.13	678	8-15	-	-	unknown
12-6	1915	6.63	910				

NOTE.--No gage-height record Aug. 7 to Sept. 30.

01114500 Woonasquatucket River at Centerdale, R.I.

LOCATION.--Lat 41°51'32", long 71°29'16", Providence County, on right bank 75 ft (23 m) downstream from bridge on U.S. Highway 44 at Centerdale and 6.5 mi (10.5 km) upstream from mouth.

DRAINAGE AREA.--38.3 mi² (99.2 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (29 m) from topographic map.

AVERAGE DISCHARGE.--32 years, 70.3 ft³/s (1.991 m³/s), 24.93 in/yr (633 mm/yr).

EXTREMES.--Current year: Maximum discharge, 812 ft³/s (23.0 m³/s) Dec. 7 (gage height, 5.84 ft or 1.780 m); minimum daily, 26 ft³/s (0.74 m³/s) Aug. 13, 14, Sept. 4, 5.

Period of record: Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 18, 1968 (gage height, 7.75 ft or 2.362 m, from floodmarks); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 26, 1963.

Maximum discharge during March 1936, 1,000 ft³/s (28.3 m³/s), by computation of flow over dam 0.7 mi (1.1 km) below station.

REMARKS.--Records good. Some regulation by reservoirs above station; regulation greater prior to 1956. Discharge figures prior to 1966 included leakage around station through bypass canal; leakage negligible subsequently.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	72	249	310	97	81	93	159	81	101	33	28
2	55	75	218	270	181	82	196	146	79	123	32	27
3	52	85	194	238	465	82	134	135	76	119	32	27
4	50	77	179	224	347	100	146	126	76	105	37	26
5	50	74	303	213	270	95	223	115	79	101	30	26
6	50	72	305	189	230	88	194	108	80	92	28	99
7	155	70	586	158	210	87	155	101	76	79	28	57
8	127	101	418	154	190	100	135	98	74	69	28	46
9	95	363	415	129	180	103	120	121	72	60	27	46
10	80	164	345	118	160	92	170	128	71	55	27	43
11	76	123	289	109	140	89	200	123	69	53	27	44
12	85	112	285	101	125	88	180	122	68	55	27	58
13	84	103	229	95	115	86	160	109	127	50	26	53
14	77	190	195	89	107	84	140	100	117	45	26	55
15	81	249	185	87	131	83	120	99	73	54	72	77
16	76	163	210	86	124	83	115	112	47	58	49	61
17	76	178	200	86	113	108	110	95	56	51	38	56
18	73	181	180	86	105	106	105	106	47	47	34	73
19	80	169	170	87	100	91	98	102	36	44	33	68
20	79	337	160	100	95	86	94	93	35	42	33	58
21	75	293	170	89	94	84	90	162	34	45	33	55
22	73	251	200	87	94	83	87	127	35	46	36	55
23	72	216	250	135	91	81	85	116	36	42	33	62
24	72	189	230	116	87	80	90	107	36	39	30	59
25	71	170	210	110	85	80	86	100	34	38	30	57
26	69	266	195	105	85	86	100	96	35	37	29	53
27	68	266	185	100	83	87	180	89	42	38	29	53
28	70	232	170	100	81	81	210	95	49	37	29	51
29	88	209	160	137	-------	79	190	95	53	37	27	51
30	84	187	150	121	-------	79	176	85	117	36	27	50
31	75	-------	180	108	-------	79	-------	88	-------	34	27	-------
TOTAL	2,377	5,237	7,415	4,137	4,185	2,713	4,182	3,456	1,910	1,832	997	1,574
MEAN	76.7	175	239	133	149	87.5	139	111	63.7	59.1	32.2	52.5
MAX	155	363	586	310	465	106	223	162	127	123	72	99
MIN	50	70	150	86	81	79	85	85	34	34	26	26
CFSM	2.00	4.57	6.24	3.47	3.89	2.28	3.63	2.90	1.66	1.54	.84	1.37
IN.	2.31	5.09	7.20	4.02	4.06	2.64	4.06	3.36	1.86	1.78	.97	1.53

CAL YR 1972 TOTAL 44,742 MEAN 122 MAX 786 MIN 26 CFSM 3.19 IN 43.46
WTR YR 1973 TOTAL 40,015 MEAN 110 MAX 586 MIN 26 CFSM 2.87 IN 38.87

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01115100 Mosquitohawk Brook near North Scituate, R.I.

LOCATION.--Lat 41°51'05", long 71°37'24", Providence County, on right bank 10 ft (3 m) downstream from culvert on Rocky Hill Road, 0.2 mi (0.3 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of North Scituate.

DRAINAGE AREA.--3.06 mi² (7.93 km²).

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 6.06 ft³/s (0.172 m³/s), 26.89 in/yr (683 mm/yr).

EXTREMES.--Current year: Maximum discharge, 174 ft³/s (4.93 m³/s) Feb. 2 (gage height, 2.93 ft or 0.893 m); minimum, 0.11 ft³/s (0.003 m³/s) Sept. 4-6.

Period of record: Maximum discharge, 630 ft³/s (17.8 m³/s) Mar. 18, 1968 (gage height, 3.40 ft or 1.036 m), from rating curve extended above 250 ft³/s (7.08 m³/s); no flow many days during most years.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	4.0	25	52	4.6	3.9	6.9	10	4.5	27	.63	.16
2	.89	3.8	19	27	31	4.2	40	9.2	3.7	12	.68	.16
3	.80	8.8	14	17	81	4.9	23	8.6	3.0	6.8	1.2	.15
4	.67	8.5	12	14	26	8.3	17	8.3	2.8	5.2	1.0	.12
5	.61	5.7	34	15	18	12	32	7.6	3.0	6.3	.63	.11
6	12	5.1	36	13	14	8.0	18	6.8	5.4	5.4	.40	6.4
7	19	6.3	57	7.8	12	6.8	14	6.3	4.0	3.7	.29	9.2
8	9.9	4.5	24	6.0	11	11	11	6.1	3.3	2.6	.29	2.5
9	6.0	87	32	4.8	11	17	11	8.6	2.5	2.0	.29	1.4
10	4.9	27	23	4.3	8.0	10	28	17	2.0	1.5	.29	.94
11	4.0	17	20	4.3	6.8	8.3	27	11	1.5	1.5	.29	.74
12	4.5	14	15	4.3	5.6	7.6	16	9.6	1.2	3.0	.29	.58
13	4.0	12	15	4.0	5.4	7.0	13	7.3	3.0	1.9	.29	.43
14	3.7	29	15	3.7	5.2	6.1	11	6.5	7.0	1.3	.29	.40
15	4.7	45	12	3.7	8.0	5.9	9.2	5.9	3.2	3.3	7.0	4.4
16	4.2	14	20	3.7	11	5.9	8.3	6.8	2.1	4.9	12	2.8
17	3.6	14	15	3.8	6.8	10	8.9	6.1	1.7	2.8	3.9	1.6
18	3.3	12	10	4.6	5.4	21	7.3	7.0	1.4	1.8	2.1	1.8
19	3.5	11	9.5	5.4	4.9	11	6.8	8.0	1.3	1.4	1.4	2.5
20	4.8	40	9.9	12	5.4	8.3	6.3	6.1	1.2	1.0	1.2	1.8
21	3.8	24	11	8.5	6.1	7.0	5.9	22	1.0	2.3	1.1	1.3
22	3.4	16	21	5.7	6.1	7.0	5.9	14	1.1	2.9	.89	1.0
23	3.1	12	25	21	6.1	6.5	5.6	8.9	2.4	1.6	.94	2.3
24	3.0	11	24	14	5.2	6.3	6.1	7.3	1.8	1.0	.68	2.1
25	2.9	10	18	9.5	4.5	5.9	5.9	6.3	1.3	.78	.43	2.8
26	2.8	34	18	7.5	4.5	7.3	10	5.6	1.1	.68	.35	2.1
27	2.8	29	18	6.8	4.0	10	36	4.9	2.0	.89	.27	1.5
28	2.5	16	17	6.5	3.8	7.3	32	5.2	5.4	.80	.29	1.3
29	4.6	14	13	12	------	6.3	18	8.0	15	.63	.29	1.1
30	7.5	12	10	11	------	5.9	13	5.9	32	.58	.21	.89
31	6.0	------	9.9	6.2	------	5.6	------	4.9	------	.58	.15	------
TOTAL	138.57	546.7	602.3	319.1	321.4	252.3	453.1	255.8	120.9	108.14	40.06	54.58
MEAN	4.47	18.2	19.4	10.3	11.5	8.14	15.1	8.25	4.03	3.49	1.29	1.82
MAX	19	87	57	52	81	21	40	22	32	27	12	9.2
MIN	.61	3.8	9.5	3.7	3.8	3.9	5.6	4.9	1.0	.58	.15	.11
CFSM	1.46	5.95	6.34	3.37	3.76	2.66	4.93	2.70	1.32	1.14	.42	.59
IN.	1.68	6.65	7.32	3.88	3.91	3.07	5.51	3.11	1.47	1.31	.49	.66

CAL YR 1972 TOTAL 3,724.87 MEAN 10.2 MAX 105 MIN .13 CFSM 3.33 IN 45.20
WTR YR 1973 TOTAL 3,212.95 MEAN 8.80 MAX 87 MIN .11 CFSM 2.88 IN 39.06

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0545	2.83	139	12-6	2400	2.78	124
11-14	2200	2.62	87	1-1	1000	2.64	91
11-20	1330	2.57	78	2-2	2330	2.93	174
11-26	1800	2.52	69				

01115630 Nooseneck River at Nooseneck, R.I.

LOCATION.--Lat 41°37'36", long 71°37'59", Kent County, on right bank at upstream side of bridge on State Highway 3 at Nooseneck and 5.5 mi (8.8 km) southwest of Washington.

DRAINAGE AREA.--8.23 mi² (21.32 km²).

PERIOD OF RECORD.--1961-63 (occasional low-flow measurements). November 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 265 ft (81 m) from topographic map.

AVERAGE DISCHARGE.--9 years (1964-73), 17.9 ft³/s (0.507 m³/s), 29.54 in/yr (750 mm/yr).

EXTREMES.--Current year: Maximum discharge, 240 ft³/s (6.80 m³/s) Dec. 7 (gage height, 5.44 ft or 1.658 m); minimum, 4.6 ft³/s (0.13 m³/s) Aug. 13, 14, 15.

Period of record: Maximum discharge, 318 ft³/s (9.01 m³/s) Mar. 18, 1968 (gage height, 6.13 ft or 1.868 m); minimum, 0.81 ft³/s (0.023 m³/s) Sept. 8, 9, 1964.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	16	50	92	30	21	32	35	23	37	8.2	5.7
2	7.4	20	43	64	64	22	98	32	21	24	8.6	5.5
3	6.8	34	38	49	138	23	58	30	20	20	9.1	5.2
4	6.8	27	34	50	69	38	50	31	18	21	8.2	5.0
5	6.5	23	62	50	57	37	67	28	18	27	7.4	5.2
6	6.5	22	63	33	51	28	48	27	16	22	6.8	5.5
7	56	23	149	29	46	27	42	25	16	17	6.2	5.5
8	37	38	72	27	45	32	43	23	14	14	6.0	5.2
9	18	108	81	26	45	37	43	37	13	12	6.0	5.2
10	14	49	70	25	39	29	67	50	13	11	5.7	5.5
11	12	35	60	24	34	27	64	46	11	13	5.5	5.2
12	11	32	52	23	32	26	48	43	10	18	5.2	5.0
13	12	29	54	22	30	25	43	34	12	13	5.0	5.0
14	11	52	50	21	29	23	39	30	14	11	4.8	5.5
15	12	88	46	21	45	22	36	28	11	24	57	14
16	11	49	67	21	41	21	35	30	10	23	36	9.5
17	13	39	47	21	36	28	34	27	10	15	19	7.9
18	11	36	43	21	29	32	33	37	9.5	13	15	13
19	12	32	40	22	28	26	31	32	10	11	13	12
20	14	99	43	35	28	24	30	28	9.5	10	11	8.6
21	13	68	43	30	29	21	28	72	9.1	16	9.9	7.9
22	12	47	71	23	30	21	27	43	9.5	16	9.9	7.4
23	11	41	70	60	29	20	26	36	11	12	9.9	17
24	10	38	67	40	27	20	27	35	9.9	10	7.9	12
25	9.9	36	54	33	24	20	24	32	8.6	9.5	7.6	11
26	9.5	65	50	30	24	31	43	29	8.6	9.9	7.1	9.1
27	9.1	66	50	27	23	32	73	27	13	11	7.1	8.2
28	9.1	40	46	40	21	26	62	30	18	9.9	6.8	7.9
29	22	41	41	60	------	24	44	34	20	9.1	6.2	7.6
30	25	36	38	47	------	24	38	27	40	8.6	5.7	7.4
31	18	------	39	35	------	24	------	25	------	8.2	5.5	------
TOTAL	434.2	1,333	1,733	1,105	1,123	811	1,333	1,043	426.7	476.2	327.3	234.7
MEAN	14.0	44.4	55.9	35.6	40.1	26.2	44.4	33.6	14.2	15.4	10.6	7.82
MAX	56	108	149	92	138	38	98	72	40	37	57	17
MIN	6.5	16	34	21	21	20	24	23	8.6	8.2	4.8	5.0
CFSM	1.70	5.39	6.79	4.33	4.87	3.18	5.39	4.08	1.73	1.87	1.29	.95
IN.	1.96	6.03	7.83	4.99	5.08	3.67	6.03	4.71	1.93	2.15	1.48	1.06

CAL YR 1972 TOTAL 10,810.0 MEAN 29.5 MAX 149 MIN 4.6 CFSM 3.58 IN 48.86
WTR YR 1973 TOTAL 10,380.1 MEAN 28.4 MAX 149 MIN 4.8 CFSM 3.45 IN 46.92

PEAK DISCHARGE (BASE, 130 ft³/s)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-9	0400	4.59	148				
11-20	1400	4.67	157				
12-7	0315	5.44	240				
2-3	0130	5.43	239				

01115770 Carr River near Nooseneck, R.I.

LOCATION.--Lat 41°38'35", long 71°36'30", Kent County, on left bank at upstream side of bridge on Burnt Sawmill Road, 1.5 mi (2.4 km) northeast of Nooseneck, and 4 mi (6 km) southwest of Washington.

DRAINAGE AREA.--6.73 mi² (17.43 km²).

PERIOD OF RECORD.--1961-63 (occasional low-flow measurements), November 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m) from topographic map. Prior to Nov. 27, 1963, reference point at site 75 ft (23 m) upstream at datum 9 ft (2.7 m) higher.

AVERAGE DISCHARGE.--9 years (1964-73), 11.4 ft³/s (0.323 m³/s), 23.00 in/yr (584 mm/yr), adjusted for diversion prior to May 1972.

EXTREMES.--Current year: Maximum discharge, 96 ft³/s (2.72 m³/s) Feb. 3 (gage height, 5.14 ft or 1.567 m); minimum, 1.3 ft³/s (0.037 m³/s) June 9, 10; minimum daily, 3.4 ft³/s (0.096 m³/s) Aug. 11-14, Sept. 1-13.

Period of record: Maximum discharge, 221 ft³/s (6.26 m³/s) Mar. 18, 1968 (gage height, 6.50 ft or 1.981 m); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 25, 26, 1968; minimum daily, 0.36 ft³/s (0.010 m³/s) Aug. 18, Sept. 12, 1965.

REMARKS.--Records good. Flow regulated by Carr Pond and other ponds above station. Prior to May 1972, diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	11	36	49	20	15	19	22	14	25	8.1	3.4
2	8.6	11	35	44	31	15	62	20	13	18	7.8	3.4
3	8.2	13	30	35	82	15	45	19	12	13	7.2	3.4
4	8.0	12	27	33	54	22	34	18	12	12	5.8	3.4
5	8.0	11	40	35	41	27	42	17	12	13	4.7	3.4
6	8.0	11	44	31	34	22	34	16	11	12	4.4	3.4
7	25	10	79	25	31	20	29	16	11	11	3.9	3.4
8	21	16	55	22	30	21	26	15	11	10	3.6	3.4
9	15	57	55	20	30	24	26	20	7.8	9.7	3.6	3.4
10	12	44	48	19	26	21	35	30	4.4	8.3	3.6	3.4
11	10	31	41	18	24	19	41	30	8.7	8.4	3.4	3.4
12	9.5	25	36	17	21	18	29	29	8.5	12	3.4	3.4
13	10	21	36	17	21	17	21	23	8.4	9.1	3.4	3.4
14	9.5	31	35	16	20	16	17	19	10	7.2	3.4	3.6
15	10	52	33	16	29	15	16	18	11	9.7	25	7.0
16	9.5	41	45	16	32	15	15	18	9.9	13	34	7.4
17	11	31	40	16	26	17	15	16	9.5	11	18	5.9
18	10	27	31	18	21	20	15	18	9.1	8.7	13	7.4
19	11	24	30	18	20	18	16	19	9.1	7.3	10	9.7
20	13	52	31	23	20	16	17	17	8.8	5.9	9.1	7.8
21	11	53	32	20	20	15	16	36	8.8	8.2	7.4	6.3
22	11	39	45	19	20	15	15	29	9.1	9.8	6.7	5.5
23	10	31	49	28	19	14	15	23	9.4	8.5	6.7	8.5
24	10	28	46	30	18	14	15	21	9.3	7.8	6.3	9.1
25	9.5	26	40	24	17	13	14	18	9.1	7.0	5.9	8.5
26	9.1	40	35	20	17	16	21	17	9.0	6.7	7.8	7.0
27	8.8	46	35	19	16	19	46	16	9.8	6.7	5.9	6.3
28	8.5	37	33	25	15	17	43	16	12	6.7	4.4	5.9
29	12	32	30	39	------	15	32	19	11	6.7	3.9	4.7
30	14	29	27	32	------	14	26	17	20	6.3	3.9	4.7
31	13	------	28	24	------	14	------	15	------	5.8	3.6	------
TOTAL	343.2	892	1,207	768	755	539	797	627	308.7	304.5	237.9	159.5
MEAN	11.1	29.7	38.9	24.8	27.0	17.4	26.6	20.2	10.3	9.82	7.67	5.32
MAX	25	57	79	49	82	27	62	36	20	25	34	9.7
MIN	8.0	10	27	16	15	13	14	15	4.4	5.8	3.4	3.4
CFSM	1.65	4.41	5.78	3.69	4.01	2.59	3.95	3.00	1.53	1.46	1.14	.79
IN.	1.90	4.93	6.67	4.25	4.17	2.98	4.41	3.47	1.71	1.68	1.31	.88

CAL YR 1972 TOTAL 6,753.7 MEAN 18.5 MAX 79 MIN 3.7 MEAN† 18.7 CFSM† 2.78 IN† 37.83
WTR YR 1973 TOTAL 6,938.8 MEAN 19.0 MAX 82 MIN 3.4 MEAN 19.0 CFSM 2.82 IN 38.35

PEAK DISCHARGE (BASE, 65 ft³/s)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-7	0515	5.04	89				
2-3	0415	5.14	96				
4-2	1000	4.69	70				

† Adjusted for diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick. Records of diversion furnished by Kent County Water Authority.

01116000 South Branch Pawtuxet River at Washington, R.I.

LOCATION.--Lat 41°41'24", long 71°33'59", Kent County, on right bank 150 ft (46 m) downstream from highway bridge at Washington and 0.9 mi (1.4 km) upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--63.8 mi² (165.2 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 217.76 ft (66.373 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 128 ft³/s (3.625 m³/s), 27.24 in/yr (692 mm/yr), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 902 ft³/s (25.5 m³/s) Dec. 7 (gage height, 3.62 ft or 1.103 m); minimum daily, 9.0 ft³/s (0.25 m³/s) Sept. 2.

Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Mar. 18, 1968 (gage height, 5.13 ft or 1.564 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Aug. 27, 1944.

Flood in March 1936 reached a discharge of 1,810 ft³/s (51.3 m³/s), by computation of flow over dam just above gage.

REMARKS.--Records good except those below 30 ft³/s (0.85 m³/s), which are fair. Flow regulated by Flat River Reservoir 2 mi (3 km) upstream (usable capacity, 250,000,000 ft³ or 7,080,000 m³) and smaller reservoirs. Prior to May 1972, diversion above station from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick. See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	134	321	461	306	123	145	349	132	302	56	12
2	85	138	330	451	332	142	314	263	132	345	68	9.0
3	78	141	310	442	432	214	363	126	132	332	76	20
4	76	137	284	437	456	222	372	165	132	165	74	126
5	80	134	341	432	447	222	451	238	135	151	90	90
6	96	134	444	427	437	218	395	198	142	187	72	50
7	167	132	789	372	432	218	218	126	145	126	36	72
8	163	144	780	413	432	222	158	126	126	121	32	53
9	159	241	697	336	427	222	183	180	60	92	33	18
10	198	264	657	218	413	214	323	310	70	41	36	58
11	194	251	635	191	336	139	390	210	109	70	12	36
12	175	246	612	118	226	165	427	172	87	129	9.5	38
13	134	244	596	115	226	230	327	327	83	99	15	38
14	105	269	466	115	222	191	155	246	80	115	50	302
15	53	290	293	118	234	129	194	165	40	158	155	385
16	131	286	423	118	230	129	323	234	20	123	314	423
17	148	303	349	118	226	176	158	194	24	107	381	481
18	175	283	194	118	222	302	155	135	90	145	327	323
19	178	274	404	121	222	148	218	230	38	112	158	50
20	148	374	404	135	230	132	218	202	36	40	94	33
21	27	526	399	161	314	132	214	238	60	53	58	31
22	20	459	418	255	302	132	183	336	85	66	64	31
23	64	373	418	341	187	132	129	332	51	80	87	56
24	171	322	418	327	126	132	129	306	58	112	158	385
25	136	289	408	319	123	145	118	180	56	90	20	345
26	86	323	354	293	123	267	109	242	60	37	31	238
27	76	417	230	129	123	246	310	135	66	48	87	129
28	22	399	194	194	123	132	381	180	129	44	78	78
29	43	351	104	336	------	129	367	306	151	22	70	68
30	126	307	109	323	------	129	358	187	210	68	36	53
31	134	------	306	314	------	129	------	135	------	62	51	------
TOTAL	3,478	8,185	12,687	8,248	7,909	5,463	7,785	6,773	2,739	3,642	2,830.5	4,031.0
MEAN	112	273	409	266	282	176	260	218	91.3	117	91.3	134
MAX	198	526	789	461	456	302	451	349	210	345	381	481
MIN	20	132	104	115	123	123	109	126	20	22	9.5	9.0
(†)	115.0	250.0	185.0	144.0	139.0	139.0	174.0	182.0	213.0	210.0	210.0	42.5
MEAN‡	104	325	385	251	280	176	273	221	103	116	91.3	69.7
CFSM‡	1.63	5.09	6.03	3.93	4.39	2.76	4.28	3.46	1.61	1.82	1.43	1.09
IN.‡	1.89	5.68	6.96	4.53	4.58	3.19	4.78	4.00	1.81	2.10	1.65	1.22

CAL YR 1972 TOTAL 74,168.0 MEAN 203 MAX 888 MIN 19 MEAN‡ 202 CFSM‡ 3.17 IN‡ 43.17
WTR YR 1973 TOTAL 73,770.5 MEAN 202 MAX 789 MIN 9.0 MEAN‡ 199 CFSM‡ 3.12 IN‡ 42.38

† Monthend contents, in millions of cubic feet, in Flat River Reservoir; records furnished by Quidnick Reservoir Co.

‡ Adjusted for change in contents in Flat River Reservoir (calendar year figures also adjusted for diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick; records furnished by Kent County Water Authority).

01116300 Furnace Hill Brook at Cranston, R.I.

LOCATION.--Lat 41°45'23", long 71°29'52", Providence County, on left bank 30 ft (9 m) downstream from bridge on Phenix Avenue at Cranston and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--4.19 mi² (10.85 km²).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 145 ft (44 m) from topographic map.

AVERAGE DISCHARGE.-8 years, 6.53 ft³/s (0.242 m³/s), 27.65 in/yr (702 mm/yr).

EXTREMES.--Current year: Maximum discharge, 526 ft³/s (14.9 m³/s) Feb. 2 (gage height, 4.42 ft or 1.347 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, 0.26 ft³/s (0.007 m³/s) Aug. 6.
Period of record: Maximum discharge, 586 ft³/s (16.6 m³/s) Mar. 18, 1968 (gage height, 4.67 ft or 1.423 m); no flow Aug. 18, 1965, and many days during summer of 1966.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	7.1	45	77	5.1	4.4	18	11	3.6	28	1.1	1.9
2	3.8	12	23	31	113	4.7	102	8.1	3.2	10	1.0	1.5
3	3.3	19	19	18	155	5.8	32	6.9	2.0	4.4	1.6	1.4
4	2.7	12	16	19	34	20	34	6.5	1.8	4.4	1.5	1.0
5	2.4	7.6	67	21	22	20	46	5.8	1.7	5.4	.65	1.3
6	2.2	6.0	106	12	15	13	21	4.7	1.5	4.4	.39	4.7
7	64	5.3	119	6.2	14	12	14	4.0	1.7	1.9	.60	3.4
8	36	39	37	4.0	12	20	14	3.8	1.5	1.4	.65	1.4
9	19	254	54	3.6	12	30	14	11	1.7	1.1	.50	.95
10	11	44	35	3.2	6.5	19	55	19	1.9	.80	.50	.95
11	7.6	26	26	3.0	5.4	14	33	24	2.0	2.8	.45	.85
12	7.1	20	14	2.8	4.4	12	18	19	1.7	6.9	.47	.85
13	9.5	15	20	2.0	3.8	11	12	10	2.4	2.6	.45	.70
14	6.7	104	18	2.0	4.4	9.0	9.2	7.2	2.2	1.4	.47	.80
15	9.0	94	13	2.0	21	8.0	7.6	6.2	1.1	14	115	5.1
16	7.6	41	41	2.2	14	8.0	6.5	8.7	1.0	15	37	3.2
17	7.6	28	19	2.6	7.2	20	6.2	6.5	.90	3.8	14	1.9
18	5.6	22	11	3.2	5.4	40	5.4	14	.80	1.9	6.5	6.5
19	5.7	19	10	4.4	4.7	20	5.1	9.8	.75	1.4	4.0	5.8
20	9.5	134	14	9.8	5.4	14	4.4	7.2	.75	1.1	3.8	4.0
21	7.1	45	15	4.7	6.5	11	3.8	48	.70	3.8	2.4	2.0
22	6.4	26	55	4.4	8.1	9.0	3.6	21	.65	3.6	2.2	1.8
23	5.3	18	45	39	7.6	8.0	3.4	11	.75	1.3	2.2	3.8
24	4.7	16	42	17	6.2	7.5	4.4	8.1	.75	1.3	1.5	3.8
25	4.1	12	28	9.2	4.7	7.0	3.8	6.2	.65	1.4	1.2	5.4
26	3.3	60	25	6.9	4.4	13	30	5.1	.95	1.1	.95	3.2
27	3.1	38	26	6.5	4.4	10	77	4.0	1.9	1.5	.85	5.1
28	3.1	22	19	14	4.7	6.2	46	6.5	1.8	1.5	.85	3.4
29	22	18	13	42	------	5.1	23	10	3.6	1.3	.75	3.0
30	22	16	10	20	------	4.4	15	5.4	45	1.0	.65	1.9
31	12	------	12	8.1	------	4.4	------	4.4	------	1.0	1.3	------
TOTAL	317.5	1,180.0	997	400.8	510.9	390.5	667.4	323.1	91.15	131.50	205.48	81.60
MEAN	10.2	39.3	32.2	12.9	18.2	12.6	22.2	10.4	3.04	4.24	6.63	2.72
MAX	64	254	119	77	155	40	102	48	45	28	115	6.5
MIN	2.2	5.3	10	2.0	3.8	4.4	3.4	3.8	.65	.80	.39	.70
CFSM	2.43	9.38	7.69	3.08	4.34	3.01	5.30	2.48	.73	1.01	1.58	.65
IN.	2.82	10.48	8.85	3.56	4.54	3.47	5.93	2.87	.81	1.17	1.82	.72

CAL YR 1972 TOTAL 5,946.15 MEAN 16.2 MAX 254 MIN .50 CFSM 3.87 IN 52.79
WTR YR 1973 TOTAL 5,296.93 MEAN 14.5 MAX 254 MIN .39 CFSM 3.46 IN 47.03

PEAK DISCHARGE (BASE, 135 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1245	3.78	151	1-1	0600	3.22	143
11-9	0100	4.28	473	2-2	2130	4.42	526
11-14	1945	3.96	358	4-2	0330	3.28	157
11-20	0830	3.83	316	4-10	1245	3.25	150
12-6	2230	4.16	429	8-15	1600	3.96	345

01116500 Pawtuxet River at Cranston, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, on left bank at Cranston, 0.7 mi (1.1 km) upstream from Pocasset River.

DRAINAGE AREA.--200 mi^2 (518 km^2).

PERIOD OF RECORD.--December 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft (2.438 m) above mean sea level.

AVERAGE DISCHARGE.--33 years (1940-1972), 406 ft^3/s (11.50 m^3/s), 27.57 in/yr (700 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 2,730 ft^3/s (77.3 m^3/s) Dec. 8 (gage height, 10.84 ft or 3.304 m); minimum daily, 96 ft^3/s (2.72 m^3/s) Sept. 3.

Period of record: Maximum discharge, 3,110 ft^3/s (88.1 m^3/s) Mar. 18, 1968 (gage height, 11.53 ft or 3.514 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Sept. 4, 1944.

REMARKS.--Records good. Flow regulated by powerplants and by Scituate Reservoir 13 mi (21 km) upstream, Flat River Reservoir, and other reservoirs (combined usable capacity, about 6,000,000,000 ft^3 or 170,000,000 m^3). Diversion above station from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry. See table below for figures of diversion and monthend contents in Scituate Reservoir and 5 smaller reservoirs and see table with station 01116000 for monthend contents in Flat River Reservoir. Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 971: 1940-42. WSP 1381: 1940-41(M). Revised figures of monthend contents and adjusted monthly and yearly figures for the water year 1972, superseding those published in WRD Mass., N.H., R.I., Vt. 1972 are given herewith:

Date	Monthend contents	Adjusted for diversion and change in contents Mean	Cfsm	In.
June 1972	5,433	751	3.76	4.19
July 1972	5,334	424	2.12	2.45
Aug. 1972	5,149	225	1.13	1.29
Sept. 1972	5,038	322	1.61	1.80
WTR YR 1972	-	531	2.66	36.18

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	361	1,190	1,500	815	588	462	743	442	640	159	165
2	170	376	1,140	1,790	1,050	588	1,080	693	425	550	185	121
3	199	410	1,020	1,680	1,870	658	915	510	279	502	203	96
4	199	388	920	1,510	1,520	703	845	486	287	389	211	124
5	202	300	1,260	1,380	1,450	550	995	558	331	311	182	227
6	209	296	1,410	1,280	1,430	703	806	478	335	327	182	185
7	752	320	2,500	1,110	1,240	703	584	360	319	275	168	193
8	598	417	2,620	1,040	1,140	749	425	442	283	227	152	185
9	342	1,480	2,330	1,080	1,100	776	454	550	200	203	152	127
10	342	1,150	2,080	809	1,010	716	812	722	152	162	149	108
11	369	900	1,860	743	854	566	866	713	203	171	189	127
12	365	821	1,640	654	570	397	758	577	200	283	143	118
13	323	780	1,530	623	740	665	693	562	239	319	116	118
14	300	1,030	1,420	616	731	661	466	522	243	207	103	235
15	209	1,470	1,040	612	922	584	360	478	178	323	1,070	728
16	247	1,050	1,350	609	821	574	550	562	146	348	1,090	626
17	316	947	1,310	612	758	633	466	542	121	227	827	737
18	338	894	915	612	640	710	405	522	156	247	703	806
19	380	839	978	616	518	454	458	526	156	255	434	335
20	388	1,440	1,090	647	707	577	458	482	140	178	283	149
21	266	1,400	1,110	405	797	570	450	700	152	211	223	146
22	170	1,220	1,310	478	821	570	376	770	185	193	203	159
23	139	1,060	1,400	943	734	566	356	719	182	178	196	146
24	300	940	1,450	791	619	558	380	707	156	203	291	315
25	357	874	1,280	737	510	486	360	514	152	219	185	612
26	292	1,130	1,160	710	393	506	498	562	156	182	129	458
27	292	1,260	1,070	577	588	647	936	438	215	159	143	295
28	273	1,300	978	591	584	486	1,000	307	247	175	171	175
29	334	1,210	800	971	------	466	854	534	307	162	189	168
30	392	1,040	682	809	------	454	776	562	605	156	149	132
31	384	------	833	752	------	454	------	466	------	178	137	------
TOTAL	9,586	27,103	41,676	27,287	24,932	18,318	18,844	17,307	7,192	8,160	8,717	8,116
MEAN	309	903	1,344	880	890	591	628	558	240	263	281	271
MAX	752	1,480	2,620	1,790	1,870	776	1,080	770	605	640	1,090	806
MIN	139	296	682	405	393	397	356	307	121	156	103	96
(†)	96.2	99.3	89.9	92.7	92.3	92.2	91.4	97.3	119	116	126	109
(‡)	5,031	5,516	5,598	5,300	5,156	4,851	5,378	5,284	5,180	5,035	4,818	4,619
MEAN††	395	1,242	1,441	847	921	569	937	623	331	324	326	239
CFSM††	1.98	6.21	7.21	4.24	4.61	2.85	4.69	3.12	1.66	1.62	1.63	1.20
IN.††	2.28	6.93	8.31	4.88	4.80	3.28	5.23	3.59	1.85	1.87	1.88	1.33

CAL YR 1972 TOTAL 215,862 MEAN 590 MAX 2,620 MIN 121 MEAN†† 732 CFSM†† 3.66 IN†† 49.84

WTR YR 1973 TOTAL 217,238 MEAN 595 MAX 2,620 MIN 96 MEAN†† 681 CFSM†† 3.41 IN†† 46.22

† Diversion, in cubic feet per second, from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry.

‡ Monthend contents, in millions of cubic feet, in Scituate Reservoir and 5 smaller reservoirs.

†† Adjusted for diversion and change in contents in Flat River Reservoir and in Scituate Reservoir and 5 smaller reservoirs. Records of diversion and monthend contents furnished by Providence Water Supply Board and Quidnick Reservoir Co.

01117000 Potowomut River near East Greenwich, R.I.

LOCATION.--Lat 41°38'28", long 71°26'45", Washington County, on right bank 45 ft (14 m) upstream from Old Forge Dam in North Kingstown, 1.5 mi (2.4 km) south of East Greenwich, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--23.0 mi² (59.6 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.42 ft (1.652 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--33 years, 43.2 ft³/s (1.223 m³/s).

EXTREMES.--Current year: Maximum discharge, 433 ft³/s (12.3 m³/s) Feb. 3 (gage height, 2.56 ft or 0.780 m); minimum, 5.2 ft³/s (0.15 m³/s) Aug. 13.

Period of record: Maximum discharge, 866 ft³/s (24.5 m³/s) Mar. 18, 1968 (gage height, 3.36 ft or 1.024 m), from rating curve extended above 440 ft³/s (12.5 m³/s); maximum gage height, 6.78 ft (2.067 m) Aug. 31, 1954 (backwater from hurricane tidal wave); no flow Oct. 25, 1947, Aug. 28-30, 1960, and part of Oct. 1 and 2, 1971 (due to closing of gate at Old Forge Dam).

Maximum stage since at least 1915, about 8.5 ft (2.6 m) Sept. 21, 1938 (backwater from hurricane tidal wave), from information by resident of area since 1915.

REMARKS.--Records good except those for period of flow through sluice gate, which are fair. Diversions above station for supply of East Greenwich, North Kingstown, Warwick, and U. S. Naval establishments; see table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 1621: 1957-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	38	143	187	76	65	85	86	43	126	11	11
2	18	41	133	170	116	67	273	77	41	74	11	9.4
3	17	52	109	132	359	68	199	74	37	46	13	9.4
4	17	45	98	130	218	115	144	73	35	35	13	8.7
5	17	40	150	141	152	133	193	69	36	40	10	7.7
6	17	35	159	122	126	99	144	65	35	37	8.9	7.7
7	94	34	325	97	117	87	118	63	33	27	8.9	7.7
8	123	45	210	85	117	101	115	60	32	22	10	7.7
9	68	189	194	79	118	115	117	83	29	19	8.9	7.4
10	44	148	172	77	102	95	143	134	25	17	7.8	7.2
11	34	98	148	77	91	84	166	108	22	16	7.8	6.8
12	29	77	129	75	84	82	126	106	20	22	7.8	6.8
13	30	67	127	71	82	77	107	83	40	18	6.8	6.8
14	28	109	123	69	80	73	99	69	78	15	6.8	7.8
15	30	213	114	71	144	72	94	63	43	55	124	20
16	27	143	189	71	142	70	90	63	29	67	154	17
17	30	104	159	72	103	83	88	58	24	40	72	8.9
18	27	89	117	74	84	90	86	69	22	26	40	14
19	33	80	107	76	81	75	84	72	22	19	27	20
20	39	216	114	90	82	69	80	61	21	15	22	13
21	35	207	125	79	85	65	77	142	20	31	18	8.9
22	31	140	182	70	86	63	74	110	20	37	17	8.9
23	30	110	199	114	81	63	73	78	25	25	17	21
24	28	97	178	105	76	61	74	71	21	18	16	21
25	26	91	150	82	72	59	71	63	18	15	13	18
26	25	151	131	73	71	85	107	59	18	15	13	14
27	26	182	128	71	68	93	216	56	33	19	12	11
28	26	132	119	104	65	74	187	59	48	18	14	10
29	54	116	109	161	------	66	131	71	35	15	11	10
30	58	102	100	132	------	63	99	58	79	13	10	8.9
31	46	------	105	94	------	63	------	50	------	11	9.4	------
TOTAL	1.128	3,191	4,546	3,051	3,078	2,475	3,660	2,353	984	953	721.1	336.7
MEAN	36.4	106	147	98.4	110	79.8	122	75.9	32.8	30.7	23.3	11.2
MAX	123	216	325	187	359	133	273	142	79	126	154	21
MIN	17	34	98	69	65	59	71	50	18	11	6.8	6.8
(†)	6.36	6.14	6.41	6.42	6.30	6.51	6.86	6.74	8.29	7.28	8.06	5.88

CAL YR 1972 TOTAL 26,834.0 MEAN 73.3 MAX 325 MIN 11 (†) 7.00
WTR YR 1973 TOTAL 26,476.8 MEAN 72.5 MAX 359 MIN 6.8 (†) 6.77

PEAK DISCHARGE (BASE, 230 ft³/s, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0130	2.09	247	2-3	0430	2.56	433
11-20	1400	2.26	309	4-2	0800	2.26	309
12-7	0430	2.44	381	8-15	2000	2.10	247
12-22	1730	2.06	236				

† Diversions, in cubic feet per second, for supply of East Greenwich, North Kingstown, Warwick, and U. S. Naval establishments; records furnished by U. S. Navy and Kent County Water Authority.

NOTE.--Flow through sluice gate Aug. 6 to Sept. 14.

01117500 Pawcatuck River at Wood River Junction, R.I.

LOCATION.--Lat 41°26'42", long 71°40'53", Washington County, on right bank at downstream side of bridge on Alton-Carolina road, 0.8 mi (1.3 km) northeast of Wood River Junction, 1.5 mi (2.4 km) southwest of Carolina, and 2.9 mi (4.7 km) upstream from Wood River.

DRAINAGE AREA.--100 mi^2 (259 km^2).

PERIOD OF RECORD.--October 1940 to current year. October and November 1940 monthly discharge only, published in WSP 1301. Prior to October 1943, published as Charles River at Wood River Junction.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 43.86 ft (revised) or 13.369 m above mean sea level.

AVERAGE DISCHARGE.--33 years, 190 ft^3/s (5.381 m^3/s), 25.80 in/yr (655 mm/yr).

EXTREMES.--Current year: Maximum discharge, 708 ft^3/s (20.1 m^3/s) Feb. 5 (gage height, 5.11 ft or 1.558 m); maximum gage height, 5.20 ft (1.585 m) Dec. 9; minimum discharge, 81 ft^3/s (2.29 m^3/s) Sept. 13, 14; minimum daily, 81 ft^3/s (2.29 m^3/s) Sept. 14.

Period of record: Maximum discharge, 1,700 ft^3/s (48.1 m^3/s) Mar. 19, 1968 (gage height, 7.80 ft or 2.377 m); minimum, 7.4 ft^3/s (0.21 m^3/s) Oct. 10, 1947; minimum daily, 15 ft^3/s (0.42 m^3/s) Oct. 11, 1947.

REMARKS.--Records good. Occasional regulation at low flow by powerplant and mills above station; regulation greater prior to 1969.

REVISIONS (WATER YEARS).--WSP 1051: Drainage area. WSP 1201: 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	165	463	465	351	252	267	443	272	252	132	95
2	93	158	450	505	358	248	443	399	252	259	128	95
3	89	163	442	516	558	248	583	367	237	239	128	94
4	88	163	425	501	678	290	622	345	226	210	127	93
5	86	158	444	490	700	360	655	325	221	197	122	95
6	88	154	462	472	640	381	630	306	215	195	115	94
7	147	149	559	408	554	371	583	292	208	184	111	94
8	182	163	623	365	503	365	538	280	202	169	107	94
9	206	277	651	316	478	401	513	298	195	153	104	91
10	199	352	636	287	441	401	503	363	184	143	101	88
11	175	395	611	275	403	385	518	399	175	138	99	85
12	147	385	563	268	360	363	511	423	164	143	96	83
13	134	339	533	256	345	342	484	403	160	138	93	82
14	126	341	507	246	325	323	443	369	166	132	91	81
15	126	430	490	246	371	308	408	340	171	164	158	98
16	124	465	523	249	417	294	378	321	164	213	230	115
17	126	471	519	256	412	294	356	300	155	226	252	109
18	124	438	484	261	371	300	342	300	149	199	230	104
19	128	397	459	265	345	292	331	300	147	171	191	109
20	134	465	457	296	332	282	321	296	145	153	158	109
21	134	543	465	291	327	269	306	389	141	184	142	103
22	132	564	502	275	321	259	292	426	147	224	133	95
23	128	543	552	305	313	252	282	425	153	221	130	117
24	124	496	579	324	302	241	278	407	149	193	125	135
25	124	454	571	322	286	235	274	371	145	169	119	136
26	120	460	541	302	278	252	298	340	141	158	113	121
27	116	499	517	282	265	288	412	315	149	162	109	110
28	116	511	492	302	250	296	509	302	171	160	105	103
29	145	504	466	373	------	284	543	308	175	153	104	96
30	161	471	438	406	------	265	494	306	206	145	102	92
31	172	------	422	398	------	257	------	292	------	138	98	------
TOTAL	4,091	11,073	15,846	10,523	11,284	9,398	13,117	10,750	5,385	5,585	4,053	3,016
MEAN	132	369	511	339	403	303	437	347	180	180	131	101
MAX	206	564	651	516	700	401	655	443	272	259	252	136
MIN	86	149	422	246	250	235	267	280	141	132	91	81
CFSM	1.32	3.69	5.11	3.39	4.03	3.03	4.37	3.47	1.80	1.80	1.31	1.01
IN.	1.52	4.12	5.89	3.91	4.20	3.50	4.88	4.00	2.00	2.08	1.51	1.12

CAL YR 1972 TOTAL 109,690 MEAN 300 MAX 910 MIN 83 CFSM 3.00 IN 40.80
WTR YR 1973 TOTAL 104,121 MEAN 285 MAX 700 MIN 81 CFSM 2.85 IN 38.73

01117600 Meadow Brook near Carolina, R.I.

LOCATION.--Lat 41°27'59", long 71°41'26", Washington County, on right bank 50 ft (15 m) upstream from culvert on Pine Hill Road and 1.5 mi (2.4 km) northwest of Carolina.

DRAINAGE AREA.--5.53 mi^2 (14.32 km^2).

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (23 m) from topographic map.

AVERAGE DICHARGE.--8 years, 9.88 ft^3/s (0.280 m^3/s), 24.26 in/yr (616 mm/yr).

EXTREMES.--Current year: Maximum discharge, 52 ft^3/s (1.47 m^3/s) Feb. 3 (gage height, 4.21 ft or 1.283 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 6.

Period of record: Maximum discharge, 164 ft^3/s (4.64 m^3/s) Mar. 18, 1968 (gage height, 6.07 ft or 1.850 m), from rating curve extended above 84 ft^3/s (2.38 m^3/s); minimum, 0.07 ft^3/s (0.002 m^3/s) Sept. 12, 13, 1965, Sept. 19, 1968.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	5.8	23	29	15	11	14	18	13	12	4.2	3.0
2	1.6	5.4	23	31	19	11	42	16	12	8.6	3.6	3.0
3	1.6	6.1	21	26	49	11	44	15	11	6.4	4.1	3.0
4	1.5	6.1	19	24	44	17	35	15	10	6.2	4.1	3.0
5	1.4	5.3	23	26	32	22	39	15	9.9	8.6	3.6	4.0
6	1.4	5.2	27	24	27	20	34	14	9.6	8.2	3.2	3.6
7	7.7	4.9	48	19	24	17	29	13	9.0	6.1	3.0	4.5
8	13	6.5	44	17	24	17	26	13	8.6	5.0	2.8	3.5
9	10	21	41	16	24	20	27	17	8.0	4.4	2.8	3.0
10	6.1	25	38	15	21	19	29	24	7.4	3.7	2.7	2.9
11	4.4	21	33	14	20	17	34	23	6.8	3.8	2.5	2.7
12	3.8	17	29	14	17	15	29	21	6.2	5.2	2.5	2.5
13	3.8	14	28	13	17	14	25	18	6.5	4.4	2.3	2.4
14	3.5	17	27	12	16	13	22	16	8.3	4.0	2.2	2.3
15	3.5	29	25	13	22	12	20	14	6.9	9.2	14	5.7
16	3.6	27	31	13	26	12	19	14	6.1	16	22	5.0
17	3.6	22	29	13	21	15	18	13	5.8	10	13	3.7
18	3.7	19	24	13	16	18	18	15	5.4	6.6	7.5	3.8
19	4.0	17	23	13	16	16	17	15	5.3	5.3	5.8	5.5
20	4.5	33	22	17	16	14	17	14	5.2	4.6	5.2	4.3
21	4.5	40	25	15	16	13	16	30	5.0	8.3	4.5	3.4
22	4.2	31	31	14	16	12	15	28	5.0	12	4.3	3.0
23	4.0	26	37	18	16	11	14	22	5.7	8.2	4.3	6.9
24	3.7	23	34	20	15	11	14	20	5.4	6.1	4.0	7.2
25	3.5	21	30	17	14	10	14	18	4.9	5.0	3.6	5.8
26	3.2	26	27	14	13	14	18	16	4.6	5.0	3.3	4.6
27	3.2	32	26	13	12	17	29	15	5.8	5.8	3.1	4.0
28	3.3	28	25	16	11	15	31	16	8.3	5.3	3.0	3.6
29	5.5	24	22	24	------	13	27	18	7.2	4.8	3.0	3.3
30	6.9	22	21	23	------	12	22	16	9.3	4.5	2.7	3.0
31	6.6	------	21	20	------	11	------	14	------	4.3	2.4	------
TOTAL	133.1	580.3	877	556	579	450	738	536	222.2	207.6	149.3	116.2
MEAN	4.29	19.3	28.3	17.9	20.7	14.5	24.6	17.3	7.41	6.70	4.82	3.87
MAX	13	40	48	31	49	22	44	30	13	16	22	7.2
MIN	1.4	4.9	19	12	11	10	14	13	4.6	3.7	2.2	2.3
CFSM	.78	3.49	5.12	3.24	3.74	2.62	4.45	3.13	1.34	1.21	.87	.70
IN.	.90	3.90	5.90	3.74	3.89	3.03	4.96	3.61	1.49	1.40	1.00	.78

CAL YR 1972 TOTAL 6,162.4 MEAN 16.8 MAX 76 MIN 1.2 CFSM 3.04 IN 41.45
WTR YR 1973 TOTAL 5,144.7 MEAN 14.1 MAX 49 MIN 1.4 CFSM 2.55 IN 34.61

PEAK DISCHARGE (BASE, 36 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1930	3.97	42	2-3	1230	4.21	52
12-7	1045	4.15	50	4-2	1545	4.14	49
12-22	2030	3.85	38				

01117800 Wood River near Arcadia, R.I.

LOCATION.--Lat 41°34'26", long 71°43'16", Washington County, on left bank at upstream side of bridge on Ten Rod Road, 1.8 mi (2.9 km) northwest of Arcadia, and 4.5 mi (7.2 km) north of Hope Valley.

DRAINAGE AREA.--35.2 mi^2 (91.2 km^2).

PERIOD OF RECORD.--January 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 71.8 ft^3/s (2.033 m^3/s), 27.70 in/yr (704 mm/yr).

EXTREMES.--Current year: Maximum discharge, 497 ft^3/s (14.1 m^3/s) Feb. 3 (gage height, 7.06 ft or 2.152 m); minimum, 16 ft^3/s (0.45 m^3/s) Sept. 12-14.

Period of record: Maximum discharge, 896 ft^3/s (25.4 m^3/s) Mar. 18, 1968 (gage height, 8.64 ft or 2.633 m); minimum, about 5.8 ft^3/s (0.16 m^3/s) about Sept. 8, 9, 1964.

REMARKS.--Records excellent. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	62	187	264	140	92	99	142	90	161	29	25
2	28	62	173	291	179	92	236	125	85	127	30	22
3	26	73	162	256	477	92	239	115	79	102	34	22
4	25	68	155	226	431	124	214	113	77	91	32	25
5	24	65	208	217	321	144	241	107	74	95	28	25
6	24	62	257	192	259	136	214	101	66	86	26	24
7	96	56	445	153	225	124	183	95	63	71	24	23
8	114	80	388	148	206	130	165	92	61	60	23	21
9	89	225	351	136	199	153	159	123	58	53	22	20
10	76	225	309	124	177	141	195	164	57	47	22	19
11	65	185	273	119	164	129	237	155	53	48	21	18
12	57	150	237	114	150	121	214	148	50	59	21	17
13	55	125	229	109	142	113	182	126	52	51	19	16
14	49	175	213	105	135	105	159	111	57	45	18	18
15	52	256	207	105	169	100	137	103	50	66	112	44
16	50	238	244	105	178	95	129	108	46	74	120	36
17	53	188	213	105	155	109	122	101	45	59	103	29
18	49	155	190	105	140	127	119	111	43	50	86	32
19	51	133	172	105	129	125	114	110	43	44	68	38
20	57	262	174	141	124	115	110	101	43	40	57	32
21	52	266	174	130	124	103	105	189	43	53	49	29
22	50	226	233	124	126	97	102	176	45	58	46	28
23	50	184	265	201	122	91	99	154	53	48	44	53
24	48	159	272	183	115	87	100	140	50	42	40	48
25	46	143	245	156	109	84	95	123	46	38	36	44
26	43	214	220	136	105	104	126	112	44	38	34	39
27	41	245	211	124	102	111	191	104	53	40	31	36
28	41	227	197	152	95	101	219	108	76	36	30	33
29	70	197	181	201	------	94	198	118	91	33	28	30
30	78	170	165	190	------	88	167	105	144	31	25	28
31	70	------	164	164	------	86	------	97	------	30	23	------
TOTAL	1,658	4,876	7,114	4,881	4,998	3,413	4,870	3,777	1,837	1,876	1,281	874
MEAN	53.5	163	229	157	179	110	162	122	61.2	60.5	41.3	29.1
MAX	114	266	445	291	477	153	241	189	144	161	120	53
MIN	24	56	155	105	95	84	95	92	43	30	18	16
CFSM	1.52	4.63	6.51	4.46	5.09	3.13	4.60	3.47	1.74	1.72	1.17	.83
IN.	1.75	5.15	7.52	5.16	5.28	3.61	5.15	3.99	1.94	1.98	1.35	.92

CAL YR 1972 TOTAL 44,383 MEAN 121 MAX 508 MIN 19 CFSM 3.44 IN 46.90
WTR YR 1973 TOTAL 41,455 MEAN 114 MAX 477 MIN 16 CFSM 3.24 IN 43.81

PEAK DISCHARGE (BASE, 250 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0100	5.23	263	12-24	0245	5.38	281
11-20	1330	5.49	294	1-1	2300	5.53	299
11-26	2015	5.14	252	2-3	2045	7.06	497
12-7	0245	6.78	457	4-2	1900	5.17	255
12-16	0930	5.13	251				

01118000 Wood River at Hope Valley, R.I.

LOCATION.--Lat 42°29'53", long 71°43'01", Washington County, on right bank 0.2 mi (0.3 km) downstream from highway bridge at Hope Valley and 6.6 mi (10.6 km) upstream from mouth.

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

PERIOD OF RECORD.--August to December 1909 (gage heights only), March 1941 to current year. Records of daily discharge for August to December 1909, published in WSP 261, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 65 ft (20 m) from topographic map. August to December 1909, nonrecording gage at site 1,000 ft (300 m) upstream at different datum.

AVERAGE DISCHARGE.--32 years, 149 ft^3/s (4.220 m^3/s), 27.95 in/yr (710 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) Feb. 3 (gage height, 6.55 ft or 1.996 m); minimum, 38 ft^3/s (1.08 m^3/s) Aug. 13, Sept. 10, 11.

Period of record: Maximum discharge, 1,720 ft^3/s (48.7 m^3/s) Mar. 18, 1968 (gage height, 8.26 ft or 2.518 m), from rating curve extended above 970 ft^3/s (27.5 m^3/s); minimum, 4.4 ft^3/s (0.12 m^3/s) Oct. 18, 1941; minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 13, 1941.

Maximum stage since 1711, at least 12.4 ft (3.78 m) in February 1886. Flood of November 1927 reached a stage of 11.7 ft (3.57 m), and flood of March 1936 reached a discharge of 1,540 ft^3/s (43.6 m^3/s).

REMARKS.--Records excellent. Some seasonal regulation by Locustville Pond on Brushy Brook since 1968. Some regulation at low flow by mills and ponds above station until 1952; regulation greater prior to 1948.

REVISIONS (WATER YEARS).--WSP 1201: 1948(P). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	114	353	475	270	181	201	291	197	397	65	53
2	52	111	358	578	316	181	535	259	181	305	65	50
3	49	135	318	489	960	181	571	238	163	224	74	48
4	47	135	291	438	927	233	473	231	156	197	73	48
5	44	126	374	445	681	295	558	220	156	229	65	54
6	44	118	466	394	521	261	466	206	145	210	57	52
7	178	111	958	312	438	238	397	194	137	163	53	64
8	335	135	879	279	397	245	360	187	131	133	50	71
9	210	445	772	256	385	295	353	236	124	112	49	53
10	145	475	686	238	341	272	401	392	118	99	48	39
11	118	378	576	229	305	247	532	358	109	93	46	38
12	105	314	489	222	272	236	440	353	103	124	46	41
13	99	261	454	210	259	224	374	286	105	118	42	55
14	91	293	436	203	245	210	323	245	135	96	41	61
15	96	530	401	201	316	199	286	226	118	181	240	118
16	94	489	470	201	369	192	263	231	103	252	443	114
17	101	401	438	201	302	210	252	222	98	172	272	84
18	94	328	387	201	254	249	243	233	93	126	197	86
19	98	279	344	201	243	236	231	243	91	103	143	105
20	109	484	337	247	233	220	229	220	87	91	112	87
21	101	634	362	254	236	201	220	436	89	128	98	86
22	94	493	440	226	236	192	210	438	91	181	89	81
23	89	397	560	341	231	181	203	346	105	137	89	109
24	86	337	539	378	217	174	206	312	105	103	79	116
25	82	298	489	298	203	167	199	275	94	86	70	98
26	78	369	429	254	199	199	245	245	89	86	65	82
27	74	505	404	236	192	236	424	226	99	99	61	71
28	74	445	383	279	183	208	466	229	172	93	58	65
29	116	397	348	404	------	192	413	270	217	82	55	61
30	154	344	318	415	------	181	341	238	318	76	52	57
31	137	------	314	341	------	176	------	210	------	70	48	------
TOTAL	3,248	9,881	14,373	9,446	9,731	6,712	10,415	8,296	3,929	4,566	2,945	2,147
MEAN	105	329	464	305	348	217	347	268	131	147	95.0	71.6
MAX	335	634	958	578	960	295	571	438	318	397	443	118
MIN	44	111	291	201	183	167	199	187	87	70	41	38
CFSM	1.45	4.54	6.41	4.21	4.81	3.00	4.79	3.70	1.81	2.03	1.31	.99
IN.	1.67	5.08	7.39	4.85	5.00	3.45	5.35	4.26	2.02	2.35	1.51	1.10

CAL YR 1972 TOTAL 87,609 MEAN 239 MAX 958 MIN 42 CFSM 3.30 IN 45.01
WTR YR 1973 TOTAL 85,689 MEAN 235 MAX 960 MIN 38 CFSM 3.25 IN 44.03

PEAK DISCHARGE (BASE, 550 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	1500	4.47	569	2-3	1630	6.55	1,130
11-21	0500	4.94	683	4-2	1900	4.82	653
12-7	1530	6.38	1,080	4-5	1400	4.58	595
12-23	0700	4.48	571	4-11	0630	4.43	560
1-2	0500	4.63	607				

01118500 Pawcatuck River at Westerly, R.I.

LOCATION.--Lat 41°23'01", long 71°50'01", Washington County, on left bank at Westerly, 2.1 mi (3.4 km) downstream from Shunock River.

DRAINAGE AREA.--295 mi² (764 km²).

PERIOD OF RECORD.--November 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.76 ft (0.536 m) below mean sea level, datum of 1929.

AVERAGE DISCHARGE.--33 years, 564 ft³/s (15.97 m³/s), 25.96 in/yr (659 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 2,470 ft³/s (70.0 m³/s) Dec. 9 (gage height, 7.38 ft or 2.249 m); maximum gage height, 7.61 ft (2.320 m) Apr. 4 (backwater from tide); minimum daily discharge, 196 ft³/s (5.55 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 4,470 ft³/s (127 m³/s) Mar. 18, 1968 (gage height, 10.49 ft or 3.197 m); maximum gage height, 12.16 ft (3.706 m) Aug. 31, 1954 (backwater from tide); minimum daily discharge, 25 ft³/s (0.71 m³/s) Aug. 17, 1941.

Flood of March 1936 reached a discharge of 3,150 ft³/s (89.2 m³/s), by computation of flow over dam 1.5 mi (2.4 km) upstream from station. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that of March 1936. Maximum stage since at least 1635, 15.0 ft (4.57 m) Sept. 21, 1938 (due to hurricane tidal wave).

REMARKS.--Records good. Diurnal fluctuation at low flow prior to 1962 by mills above station; regulation much greater prior to 1958. Diversion above station for municipal supply of Westerly.

REVISIONS.--WSP 1051: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	412	1,340	1,460	1,110	709	820	1,250	842	918	376	235
2	279	338	1,330	1,650	1,140	708	1,670	1,120	782	955	376	239
3	305	404	1,240	1,630	2,050	709	1,980	1,040	730	872	374	239
4	235	406	1,150	1,620	2,260	820	1,920	985	592	722	365	225
5	196	394	1,260	1,620	2,230	1,050	2,050	932	685	730	359	221
6	196	382	1,430	1,520	2,060	1,060	1,990	880	552	722	336	230
7	475	370	2,190	1,300	1,820	1,020	1,800	835	634	534	325	230
8	628	412	2,270	1,050	1,660	1,020	1,650	805	613	564	304	239
9	593	1,040	2,430	1,040	1,590	1,120	1,570	865	599	508	299	244
10	482	1,220	2,320	1,010	1,370	1,120	1,600	1,150	564	466	294	235
11	394	1,160	2,120	910	1,250	1,070	1,720	1,260	543	445	283	221
12	468	1,040	1,890	872	1,120	1,020	1,680	1,290	515	459	278	216
13	325	944	1,740	812	1,060	962	1,580	1,230	494	466	278	212
14	324	1,030	1,610	790	985	895	1,370	1,100	515	433	263	204
15	304	1,430	1,540	775	1,340	853	1,240	1,010	515	599	474	273
16	293	1,430	1,630	742	1,270	820	1,140	962	494	850	910	315
17	334	1,340	1,620	790	1,210	942	1,050	925	473	790	902	334
18	329	1,250	1,430	805	1,060	910	1,020	910	452	627	700	273
19	339	1,130	1,430	820	1,020	902	970	925	452	522	536	289
20	331	1,500	1,340	918	952	858	940	902	445	459	432	289
21	331	1,820	1,360	888	960	805	805	1,350	432	564	365	273
22	314	1,760	1,560	835	932	768	855	1,520	439	760	336	259
23	309	1,610	1,800	985	918	752	835	1,390	473	722	331	304
24	304	1,430	1,890	1,130	880	715	828	1,280	473	606	320	354
25	294	1,260	1,830	1,090	828	585	835	1,160	459	501	299	336
26	288	1,350	1,730	970	790	760	880	1,060	439	459	283	299
27	278	1,540	1,630	830	768	910	1,280	978	439	494	268	278
28	279	1,520	1,540	992	722	895	1,490	948	564	480	259	263
29	348	1,470	1,420	1,300	------	920	1,510	992	627	452	249	254
30	419	1,360	1,320	1,420	------	775	1,420	978	730	414	244	244
31	435	------	1,260	1,290	------	745	------	902	------	382	235	------
TOTAL	10,128	32,804	50,620	34,032	35,005	27,101	43,518	32,934	16,776	18,581	11,655	7,797
MEAN	327	1,093	1,633	1,098	1,250	874	1,351	1,062	559	599	376	260
MAX	628	1,820	2,430	1,680	2,260	1,120	2,050	1,520	842	955	910	354
MIN	196	370	1,150	775	722	585	805	805	432	382	235	204
MEAN†	**330**	**1,097**	**1,636**	**1,101**	**1,253**	**877**	**1,354**	**1,066**	**564**	**604**	**381**	**264**
CFSM†	**1.12**	**3.72**	**5.55**	**3.73**	**4.25**	**2.97**	**4.59**	**3.61**	**1.91**	**2.05**	**1.29**	**.89**
IN.†	**1.29**	**4.15**	**6.40**	**4.30**	**4.43**	**3.43**	**5.12**	**4.17**	**2.13**	**2.36**	**1.49**	**1.00**

CAL YR 1972 TOTAL 322,678 MEAN 882 MAX 3,170 MIN 192 **MEAN† 885 CFSM† 3.00 IN† 40.86**
WTR YR 1973 TOTAL 317,551 MEAN 871 MAX 2,430 MIN 196 **MEAN† 875 CFSM† 2.97 IN† 40.26**

† Adjusted for diversion for municipal supply of Westerly. Diversion records furnished by Westerly Department of Public Works.

01123360 Quinebaug River below East Brimfield Dam, at Fiskdale, Mass.

LOCATION.--Lat 42°06'31", long 72°07'27", Worcester County, on right bank at Fiskdale, 750 ft (230 m) downstream from East Brimfield Dam and 2.4 mi (3.9 km) upstream from Cedar Pond outlet.

DRAINAGE AREA.--67.5 mi² (174.8 km²).

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (190 m) from topographic map.

EXTREMES.--October 1972 to September 1973: Maximum discharge, 975 ft³/s (27.6 m³/s) Feb. 5 (gage height, 6.29 ft or 1.917 m); minimum daily, 9.4 ft³/s (0.27 m³/s) Sept. 8.

REMARKS.--Records excellent. Flow regulated by East Brimfield Lake (see p. 127).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	63	256	315	162	100	150	292	160	229	24	26
2	27	64	262	458	157	101	154	275	145	249	29	26
3	31	81	260	467	196	112	175	204	128	210	55	32
4	32	79	244	464	425	141	460	176	116	169	116	33
5	33	74	265	445	790	180	454	154	109	159	123	27
6	33	67	323	356	899	196	441	146	103	176	101	25
7	63	57	409	238	708	191	364	120	98	164	77	20
8	110	57	484	216	560	240	257	68	91	134	61	9.4
9	133	95	491	187	248	378	180	99	85	109	51	15
10	128	110	491	164	337	399	95	176	77	91	41	21
11	115	110	608	147	372	334	124	225	70	78	34	22
12	98	100	643	137	239	283	196	226	64	64	35	22
13	87	87	474	130	194	251	438	221	91	56	39	21
14	79	97	362	122	172	227	460	204	136	51	41	18
15	77	115	317	115	168	208	389	181	141	49	42	12
16	74	158	287	112	167	196	250	174	127	40	41	17
17	82	173	247	105	156	204	204	167	106	40	37	21
18	108	196	229	105	141	268	195	159	86	52	32	21
19	117	164	220	119	141	284	144	147	73	45	28	21
20	119	200	206	177	135	257	76	137	66	39	24	22
21	119	264	198	204	135	223	77	190	60	48	21	23
22	119	279	212	208	137	198	141	242	59	58	19	27
23	119	262	253	307	141	180	177	247	70	58	17	30
24	115	223	280	400	137	167	177	217	81	52	16	23
25	102	216	278	359	124	157	176	186	82	44	14	18
26	91	240	260	285	118	162	175	161	70	36	13	10
27	81	310	247	229	112	178	175	147	62	32	12	9.6
28	71	364	238	204	107	182	178	142	69	32	12	127
29	68	325	220	197	------	172	181	164	86	31	12	101
30	68	267	202	180	------	157	256	174	150	30	11	63
31	64	------	202	176	------	148	------	172	------	27	24	------
TOTAL	2,589	4,897	9,668	7,328	7,379	6,474	6,939	5,590	2,861	2,652	1,202	861.0
MEAN	83.5	163	312	236	264	209	231	180	95.4	85.5	38.8	28.7
MAX	133	364	643	467	899	399	460	292	160	249	123	127
MIN	26	57	198	105	107	100	76	68	59	27	11	9.4
MEAN†	84.7	169	310	236	261	210	244	166	97.3	81.8	38.1	30.6
CFSM†	1.25	2.50	4.59	3.50	3.87	3.11	3.61	2.46	1.44	1.21	.56	.45
IN†	1.45	2.79	5.30	4.03	4.03	3.59	4.04	2.83	1.61	1.40	.65	.51

WTR YR 1973 TOTAL 58,439.0 MEAN 160 MAX 899 MIN 9.4 MEAN† 160 CFSM† 2.37 IN† 32.23

† Adjusted for change in contents in East Brimfield Lake.

01123600 Quinebaug River below Westville Dam, near Southbridge, Mass.

LOCATION.--Lat 42°04'58", long 72°03'27", Worcester County, on right bank 200 ft (60 m) downstream from Westville Dam, 1.0 mi (1.6 km) upstream from McKinstry Brook, and 1.3 mi (2.1 km) west of Southbridge.

DRAINAGE AREA.--99.1 mi^2 (256.7 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 510 ft (155 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 155 ft^3/s (4.390 m^3/s), 21.24 in/yr (539 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) Feb. 6 (gage height, 6.33 ft or 1.929 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Aug. 30.
Period of record: Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) Feb. 6, 1973 (gage height, 6.33 ft or 1.929 m); minimum daily, 7.3 ft^3/s (0.21 m^3/s) Nov. 21, 28, 1964, July 30, 1965.

REMARKS.--Records good. Flow regulated by mills, by East Brimfield and Westville Lakes (see p. 127), and by other reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	78	429	467	255	194	273	360	204	381	36	36
2	62	81	407	627	236	196	490	356	188	344	44	33
3	58	111	385	895	136	215	273	284	165	283	65	34
4	45	109	367	744	483	276	586	247	145	222	165	42
5	33	101	437	655	985	323	750	219	156	250	154	34
6	32	114	486	558	1,170	337	764	204	130	255	124	36
7	98	84	686	358	1,150	329	627	188	126	225	94	36
8	170	87	795	340	1,040	404	506	122	122	189	75	29
9	179	176	768	293	996	617	396	122	108	158	62	25
10	172	179	783	246	749	623	286	236	98	128	56	36
11	149	168	883	236	662	532	332	267	86	110	47	34
12	138	154	913	221	546	447	283	315	80	100	47	30
13	105	133	627	207	366	428	512	295	130	83	52	30
14	91	162	615	195	297	392	572	267	204	76	50	31
15	88	227	452	186	324	362	540	238	191	71	56	34
16	83	220	410	182	309	339	396	236	165	67	50	25
17	86	218	413	176	293	370	315	222	138	54	44	38
18	108	235	386	177	271	499	283	209	112	65	42	54
19	133	221	363	197	265	508	244	191	96	56	39	55
20	141	234	321	324	255	469	151	179	80	49	36	23
21	140	233	310	321	255	400	145	292	77	68	33	37
22	142	234	358	316	261	360	177	329	86	65	33	39
23	142	235	414	465	263	325	236	315	118	73	31	54
24	132	238	418	615	252	299	252	276	112	64	29	47
25	114	240	418	541	236	286	244	236	109	56	27	68
26	106	252	403	417	225	302	250	209	96	48	26	44
27	95	438	390	364	216	325	273	194	86	46	23	36
28	88	564	372	325	204	312	286	184	103	46	23	18
29	91	471	342	323	------	299	270	214	110	43	23	129
30	89	409	311	297	------	276	292	214	286	41	21	76
31	82	------	319	277	------	264	------	217	------	38	23	------
TOTAL	3,267	6,406	15,120	11,565	12,709	11,308	11,008	7,440	3,892	3,756	1,646	1,290
MEAN	105	214	488	372	454	365	367	240	130	121	53.1	43.0
MAX	179	564	913	895	1,170	623	764	360	286	381	165	129
MIN	32	78	310	176	136	194	145	122	77	38	21	23
MEAN†	107	220	486	372	452	366	380	225	132	117	52.4	45.1
CFSM†	1.08	2.22	4.90	3.75	4.56	3.69	3.83	2.27	1.33	1.18	.53	.46
IN.†	1.24	2.47	5.66	4.33	4.75	4.26	4.28	2.62	1.48	1.36	.61	.51

CAL YR 1972 TOTAL 97,996 MEAN 268 MAX 1,040 MIN 20 MEAN† 268 CFSM† 2.70 IN† 36.81
WTR YR 1973 TOTAL 89,367 MEAN 245 MAX 1,170 MIN 21 MEAN† 245 CFSM† 2.47 IN† 33.57

† Adjusted for change in contents in East Brimfield and Westville Lakes.
NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01124000 Quinebaug River at Quinebaug, Conn.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft (152 m) upstream from bridge on State Highway 197, 0.2 mi (0.3 km) downstream from Massachusetts-Connecticut State line, 7.8 mi (12.6 km) upstream from French River, and at mile 46 (kilometre 74).

DRAINAGE AREA.--156 mi² (404 km²).

PERIOD OF RECORD.--September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft (104.095 m) above mean sea level.

AVERAGE DISCHARGE.--42 years, 266 ft³/s (7.533 m³/s), 23.17 in/yr (589 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,440 ft³/s (69.1 m³/s) Feb. 2 (gage height, 6.00 ft or 1.829 m); minimum, 24 ft³/s (0.68 m³/s) Aug. 31.

Period of record: Maximum discharge, 49,300 ft³/s (1,400 m³/s) Aug. 19, 1955 (gage height, 18.96 ft or 5.779 m, from floodmarks), from rating curve extended above 5,100 ft³/s (144 m³/s) on basis of slope-area measurement of peak flow; minimum, about 1 ft³/s (0.028 m³/s) Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4, Oct. 29, 1956; minimum daily, about 1 ft³/s (0.028 m³/s) Sept. 4, 1956; minimum gage height, 1.74 ft (0.530 m) Aug. 20, 1940.

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes (see p. 127), and by smaller reservoirs upstream. Records of chemical analyses and water temperatures for the current year are published as Quinebaug River near Dudley, Mass., in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: 1936(M), WSP 1201: 1939-43, 1947, 1949. WSP 1381: 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	97	717	1,130	390	200	350	355	292	766	52	35
2	91	117	654	1,170	710	212	836	264	260	577	91	40
3	85	189	584	1,160	1,750	236	540	340	228	440	188	37
4	68	176	546	1,010	1,110	355	794	435	208	345	256	48
5	52	154	738	864	1,280	405	1,060	474	196	415	224	39
6	47	158	992	724	1,350	395	976	425	200	435	169	65
7	248	124	1,500	668	1,250	380	801	270	184	345	130	48
8	325	158	1,280	696	1,140	540	647	260	169	276	102	34
9	208	430	1,280	759	1,050	766	522	310	150	228	114	28
10	256	360	1,190	626	822	731	558	370	130	184	91	32
11	212	300	1,170	390	717	619	640	450	114	162	71	40
12	208	268	1,150	296	626	522	504	540	105	150	71	33
13	165	232	1,060	284	415	498	668	450	240	124	76	32
14	133	395	850	260	340	450	724	350	335	108	68	37
15	133	584	668	236	375	415	682	320	272	102	82	64
16	121	480	584	232	360	395	510	370	228	102	76	35
17	124	425	598	232	330	546	420	330	184	85	68	41
18	143	410	626	240	320	787	385	320	154	88	60	130
19	169	355	480	272	310	689	292	300	130	82	49	129
20	176	731	430	552	280	598	264	280	117	71	44	66
21	173	717	410	486	284	504	325	700	105	121	42	66
22	169	612	534	430	296	440	345	600	143	143	37	61
23	165	534	633	920	296	400	320	445	236	117	35	97
24	158	450	612	885	276	360	395	400	192	94	30	87
25	137	400	598	752	252	340	486	340	162	82	29	129
26	124	759	577	570	240	390	474	300	140	74	28	104
27	111	906	564	492	224	410	415	276	158	82	29	71
28	102	822	522	445	212	375	435	284	208	74	28	70
29	124	696	462	440	------	355	450	335	216	65	26	168
30	114	591	420	440	------	325	410	315	682	60	26	99
31	102	------	440	400	------	310	------	325	------	54	24	------
TOTAL	4,631	12,629	22,869	18,001	17,005	13,948	16,228	11,533	6,138	6,051	2,416	1,965
MEAN	149	421	738	581	607	450	541	372	205	195	77.9	65.5
MAX	325	906	1,500	1,170	1,750	787	1,060	700	682	766	256	168
MIN	47	97	410	232	212	200	264	260	105	54	24	28
MEAN†	150	427	736	580	605	451	554	357	207	191	77.2	67.6
CFSM†	.96	2.74	4.72	3.72	3.88	2.89	3.55	2.29	1.33	1.22	.49	.43
IN.†	1.11	3.06	5.44	4.29	4.04	3.33	3.96	2.64	1.48	1.41	.56	.48

CAL YR 1972 TOTAL 152,789 MEAN 417 MAX 1,730 MIN 27 MEAN† 417 CFSM† 2.67 IN† 36.44
WTR YR 1973 TOTAL 133,414 MEAN 366 MAX 1,750 MIN 24 MEAN† 366 CFSM† 2.35 IN† 31.80

† Adjusted for change in contents in East Brimfield and Westville Lakes.

01124350 French River below Hodges Village Dam, at Hodges Village, Mass.

LOCATION.--Lat 42°07'06", long 71°52'54", Worcester County, on right bank at Hodges Village, 240 ft (73 m) downstream from Hodges Village Dam, 0.8 mi (1.3 km) west of Oxford, and 1.2 mi (1.9 km) upstream from Little River.

DRAINAGE AREA.--31.0 mi² (80.3 km²).

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 480 ft (146 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 50.6 ft³/s (1.433 m³/s), 22.17 in/yr (563 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 491 ft³/s (13.9 m³/s) Feb. 7 (gage height, 3.18 ft or 0.969 m); minimum, 2.2 ft³/s (0.062 m³/s) Sept. 25; minimum daily, 11 ft³/s (0.31 m³/s) Sept. 11, 12.
Period of record: Maximum discharge, 496 ft³/s (14.0 m³/s) Mar. 20, 1972 (gage height, 3.19 ft or 0.972m); maximum gage height, 3.24 ft (0.988 m) Mar. 28, 1963; no flow for part of July 17, 1968 (caused by unusual regulation); minimum daily discharge, 2.0 ft³/s (0.057 m³/s) Aug. 7, 1963.

REMARKS.--Records good. Flow regulated by Hodges Village Reservoir (see p. 127).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	36	119	188	75	50	54	101	64	245	27	14
2	30	36	129	341	75	50	125	80	56	233	29	14
3	28	55	115	240	146	57	220	65	49	148	67	13
4	27	65	110	213	260	71	184	67	41	96	73	13
5	27	60	116	176	361	98	174	69	39	86	50	13
6	27	55	127	158	402	99	186	64	38	119	30	13
7	46	49	307	124	365	84	152	57	36	101	22	14
8	111	48	310	109	211	86	110	51	33	69	18	14
9	100	158	261	102	128	176	92	52	29	53	45	13
10	74	264	247	99	102	160	95	68	25	41	38	12
11	54	182	247	97	85	112	177	82	21	33	25	11
12	48	108	187	92	77	89	167	106	18	42	20	11
13	48	88	156	81	73	87	121	102	27	58	17	12
14	46	85	149	64	71	87	87	84	68	29	16	14
15	45	186	132	64	73	65	75	69	57	25	17	21
16	42	190	134	68	79	54	67	65	36	24	25	23
17	39	131	141	67	76	75	62	69	28	23	24	20
18	37	91	142	68	68	181	59	62	22	20	19	26
19	35	84	132	78	67	206	59	62	20	18	20	55
20	35	125	131	142	64	148	55	57	19	16	21	38
21	34	250	131	170	63	106	51	90	17	20	22	27
22	34	202	139	152	66	78	47	140	29	31	21	22
23	32	129	168	212	68	71	44	126	125	28	20	25
24	32	99	167	288	68	67	50	95	117	20	19	30
25	32	90	159	186	65	61	53	74	74	16	17	38
26	31	117	149	125	61	61	52	62	52	19	16	42
27	30	277	149	106	58	74	76	54	42	24	16	33
28	30	234	146	98	53	73	140	51	65	30	17	30
29	34	159	139	92	------	62	170	63	73	31	17	34
30	40	121	128	95	------	57	138	68	125	28	16	52
31	39	------	124	84	------	55	------	65	------	27	14	------
TOTAL	1,297	3,774	4,991	4,229	3,360	2,800	3,142	2,320	1,447	1,733	798	697
MEAN	41.8	126	161	136	120	90.3	105	74.8	48.2	55.9	25.7	23.2
MAX	111	277	310	341	402	206	220	140	125	245	73	55
MIN	27	36	110	64	53	50	44	51	17	16	14	11
MEAN†	41.9	127	161	136	120	90.4	105	74.4	48.5	55.4	25.7	23.5
CFSM†	1.35	4.10	5.19	4.39	3.87	2.92	3.39	2.40	1.56	1.79	.83	.76
IN.†	1.56	4.55	5.99	5.07	4.03	3.36	3.79	2.77	1.75	2.06	.96	.85

CAL YR 1972 TOTAL 37,440.1 MEAN 102 MAX 437 MIN 9.0 MEAN† 102 CFSM† 3.29 IN† 44.94
WTR YR 1973 TOTAL 30,588.0 MEAN 83.8 MAX 402 MIN 11 MEAN† 83.8 CFSM† 2.70 IN† 36.72

† Adjusted for change in contents in Hodges Village Reservoir.

01124500 Little River at Buffumville, Mass.

LOCATION.--Lat 42°06'57", long 71°53'26", Worcester County, on left bank 0.6 mi (1.0 km) upstream from mouth, 0.8 mi (1.3 km) east of Buffumville, 1.1 mi (1.8 km) downstream from Buffumville Dam, and 1.5 mi (2.4 km) west of Oxford.

DRAINAGE AREA.--27.7 mi² (71.7 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 457.00 ft (139.294 m) above mean sea level, unadjusted (levels by Corps of Engineers).

AVERAGE DISCHARGE.--34 years, 46.5 ft³/s (1.317 m³/s), 22.80 in/yr (579 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 330 ft³/s (9.35 m³/s) Dec. 8 (gage height, 4.67 ft or 1.423 m); minimum, 4.2 ft³/s (0.12 m³/s) about Sept. 14.
Period of record: Maximum discharge, 8,340 ft³/s (236 m³/s) Aug. 19, 1955 (gage height, 15.53 ft or 4.734 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of computation of peak flow over dam; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 25, 26, 1957. Maximum discharge since construction of Buffumville Dam in 1958, 429 ft³/s (12.1 m³/s) Apr. 7, 1959 (gage height, 5.04 ft or 1.536 m).

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Buffumville Lake since 1958 (see p. 127) and by other reservoirs upstream. Prior to 1958, flow regulated by mill above station.

REVISIONS (WATER YEARS).--WSP 1201: 1940, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	15	129	115	64	36	61	92	50	180	13	7.1
2	6.8	17	127	201	82	36	118	76	45	173	16	6.6
3	6.4	24	118	194	142	39	176	67	39	131	29	6.1
4	6.0	32	109	161	218	53	171	64	35	94	40	5.8
5	5.7	33	117	138	293	75	174	62	32	82	41	5.5
6	5.5	31	128	119	303	82	173	56	33	104	34	5.6
7	16	30	237	97	284	80	151	51	34	100	27	6.6
8	31	33	305	78	255	92	125	47	32	79	22	6.4
9	40	82	218	64	173	131	106	48	31	61	41	5.8
10	37	122	211	55	127	138	114	58	30	48	65	5.2
11	30	111	225	50	101	119	159	76	28	37	57	4.9
12	25	89	201	47	81	102	161	96	24	47	43	4.7
13	23	71	119	45	68	92	135	97	27	39	37	4.5
14	21	72	141	43	59	85	111	83	52	33	30	4.3
15	21	118	120	42	58	78	94	70	60	29	29	5.6
16	22	130	53	42	59	73	81	66	49	27	30	6.4
17	19	111	76	43	57	84	73	63	39	24	29	6.0
18	16	89	81	45	52	137	68	59	31	21	26	8.0
19	15	71	79	49	49	159	65	56	26	19	22	17
20	13	102	78	88	46	137	61	51	23	17	20	19
21	12	150	77	112	46	112	56	70	21	20	18	18
22	11	150	82	100	48	93	52	90	25	23	16	16
23	10	123	93	144	51	79	50	88	68	23	15	17
24	10	97	105	167	50	70	53	74	94	21	13	19
25	10	82	105	146	47	64	54	61	78	18	12	29
26	10	104	102	119	44	65	54	51	58	17	11	31
27	9.2	179	101	99	41	74	70	45	48	17	9.7	29
28	9.2	194	93	88	38	74	109	44	58	17	9.2	26
29	12	182	81	87	------	68	126	53	67	17	8.6	23
30	14	139	72	81	------	63	113	55	111	16	8.0	18
31	15	------	70	73	------	59	------	54	------	14	7.5	------
TOTAL	489.3	2,783	3,853	2,932	2,936	2,649	3,114	2,023	1,348	1,548	779.0	367.1
MEAN	15.8	92.8	124	94.6	105	85.5	104	65.3	44.9	49.9	25.1	12.2
MAX	40	194	305	201	303	159	176	97	111	180	65	31
MIN	5.5	15	53	42	38	36	50	44	21	14	7.5	4.3
MEAN†	15.8	96.1	124	93.3	105	84.5	108	61.6	48.0	46.6	23.2	14.6
CFSM†	.57	3.47	4.48	3.37	3.79	3.05	3.90	2.22	1.73	1.68	.84	.53
IN.†	.66	3.87	5.15	3.88	3.96	3.52	4.33	2.57	1.93	1.94	.97	.59

CAL YR 1972 TOTAL 29,120.9 MEAN 79.6 MAX 305 MIN 3.8 MEAN† 79.6 CFSM† 2.87 IN† 39.12
WTR YR 1973 TOTAL 24,821.4 MEAN 68.0 MAX 305 MIN 4.3 MEAN† 68.1 CFSM† 2.46 IN† 33.36

† Adjusted for change in contents in Buffumville Lake.
NOTE.--No gage-height record Sept. 6-30.

01124750 Browns Brook near Webster, Mass.

LOCATION.--Lat 42°03'24", long 71°49'51", Worcester County, on left bank 15 ft (5 m) downstream from culvert on State Highway 16 and 1.8 mi (2.9 km) east of Webster.

DRAINAGE AREA.--0.49 mi² (1.27 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (192 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73), 1.06 ft³/s (0.030 m³/s), 29.38 in/yr (746 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19 ft³/s (0.54 m³/s) Dec. 6 (gage height, 2.00 ft or 0.610 m); minimum, 0.08 ft³/s (0.002 m³/s) Oct. 1-7, Aug. 31, Sept. 4-6, 13, 14.

Period of record: Maximum discharge, 125 ft³/s (3.54 m³/s) Mar. 18, 1968 (gage height, 2.46 ft or 0.750 m); no flow for many days during water years 1963-65, 1968-71.

REMARKS.--Records good. Recording rain gage at station since April 1963 (no winter records). Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.58	2.3	7.1	.95	.43	1.3	3.0	1.1	2.1	.24	.09
2	.08	.68	2.1	5.6	3.4	.43	3.0	3.0	1.1	1.7	.28	.09
3	.08	1.3	1.9	4.2	10	.43	2.7	2.7	.95	1.5	.43	.09
4	.08	1.3	1.7	3.4	6.7	.50	3.0	2.5	.80	1.5	.32	.09
5	.08	1.1	2.5	3.4	4.2	.50	3.9	2.3	.80	1.9	.23	.08
6	.08	1.1	6.7	2.7	3.7	.50	3.7	2.1	.68	1.7	.20	.68
7	1.5	1.1	8.9	2.1	3.0	.50	3.2	1.9	.68	1.3	.18	.37
8	.68	1.3	6.0	1.7	2.7	.95	3.0	1.7	.58	1.1	.18	.18
9	.32	3.7	6.0	1.5	2.3	1.5	2.5	1.7	.50	.80	.18	.14
10	.32	2.5	4.5	1.5	2.1	1.5	3.2	1.9	.50	.68	.17	.11
11	.24	1.9	3.7	1.3	1.7	1.5	2.7	1.9	.43	.68	.16	.09
12	.24	1.6	3.0	1.1	1.5	1.5	2.3	1.7	.37	.68	.19	.09
13	.21	1.4	3.2	.95	1.5	1.5	2.3	1.7	1.5	.58	.21	.09
14	.21	2.5	3.0	.80	1.3	1.5	1.9	1.3	1.3	.50	.20	.09
15	.18	4.0	2.5	.80	1.3	1.5	1.9	1.3	.80	.50	.50	.29
16	.18	2.4	2.3	.80	1.3	1.5	1.9	1.3	.68	.50	.37	.20
17	.15	1.8	2.1	.80	.95	1.9	1.5	1.3	.58	.43	.28	.14
18	.15	1.4	1.7	.68	.80	2.7	1.5	1.3	.50	.37	.23	.58
19	.13	1.6	1.7	.68	.68	2.5	1.5	1.3	.50	.37	.20	.32
20	.18	4.5	1.5	1.9	.80	2.5	1.5	1.1	.50	.37	.18	.20
21	.18	2.3	1.3	1.3	.80	2.3	1.5	2.5	.50	.68	.18	.14
22	.18	1.9	1.5	1.1	.80	2.1	1.5	2.1	.50	.50	.18	.13
23	.18	1.7	1.7	2.7	.80	2.1	1.5	1.9	.50	.37	.17	.32
24	.24	1.5	1.7	2.3	.68	1.9	1.3	1.9	.43	.32	.15	.29
25	.21	1.1	1.7	1.9	.50	1.7	1.3	1.7	.37	.28	.15	.37
26	.21	2.3	1.7	1.9	.50	1.5	1.5	1.5	.37	.28	.13	.18
27	.21	2.3	1.7	1.9	.50	1.5	2.3	1.5	.50	.50	.13	.15
28	.28	1.9	1.7	1.9	.50	1.5	3.9	1.5	.68	.43	.13	.15
29	.68	1.5	1.7	1.9	------	1.1	3.4	1.7	.50	.32	.12	.11
30	.68	1.7	1.5	1.3	------	1.1	3.0	1.3	2.1	.28	.10	.11
31	.58	------	1.7	1.3	------	1.1	------	1.1	------	.24	.09	------
TOTAL	8.80	55.96	85.2	62.51	55.96	43.74	69.7	55.7	21.30	23.46	6.46	5.96
MEAN	.28	1.87	2.75	2.02	2.00	1.41	2.32	1.80	.71	.76	.21	.20
MAX	1.5	4.5	8.9	7.1	10	2.7	3.9	3.0	2.1	2.1	.50	.68
MIN	.08	.58	1.3	.68	.50	.43	1.3	1.1	.37	.24	.09	.08
CFSM	.57	3.82	5.61	4.12	4.08	2.88	4.73	3.67	1.45	1.55	.43	.41
IN.	.67	4.25	6.47	4.75	4.25	3.32	5.29	4.23	1.62	1.78	.49	.45

CAL YR 1972 TOTAL 572.75 MEAN 1.56 MAX 13 MIN .05 CFSM 3.18 IN 43.48
WTR YR 1973 TOTAL 494.75 MEAN 1.36 MAX 10 MIN .08 CFSM 2.78 IN 37.56

PEAK DISCHARGE (BASE, 5.0 ft³/s)

NOTE.--No gage-height record Nov. 11-20.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0700	1.82	5.6	1-1	0645	1.80	7.8
11-20	-	-	†7.0	2-2	2045	1.87	12
12-6	2000	2.00	19	6-13	1545	1.77	6.7

† About.

01125000 French River at Webster, Mass.

LOCATION.--Lat 42°03'03", long 71°53'08", Worcester County, on right bank in Dudley, 50 ft (15 m) upstream from Pleasant Street Bridge at Webster, and 1.1 mi (1.8 km) upstream from Potash Brook.

DRAINAGE AREA.--85.3 mi^2 (220.9 km^2).

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 406.74 ft (123.974 m) above mean sea level.

AVERAGE DISCHARGE.--24 years (1949-73), 156 ft^3/s (4.418 m^3/s), 24.84 in/yr (631 mm/yr), adjusted for storage in flood-control reservoirs.

EXTREMES.--Current year: Maximum discharge, 876 ft^3/s (24.8 m^3/s) Feb. 6 (gage height, 7.56 ft or 2.304 m); minimum daily, 32 ft^3/s (0.91 m^3/s) Sept. 1, 10-13.

Period of record: Maximum discharge, 14,400 ft^3/s (408 m^3/s) Aug. 19, 1955 (gage height, 26.05 ft or 7.940 m, from floodmarks), from rating curve extended above 2,400 ft^3/s (68.0 m^3/s) on basis of computation of peak flow over dam; minimum daily, 2.2 ft^3/s (0.062 m^3/s) Aug. 15, 1965. Maximum discharge since construction of Buffumville Dam in 1958, 1,020 ft^3/s (28.9 m^3/s) Apr. 2, 1960 (gage height, 7.56 ft or 2.304 m); maximum gage height, 7.92 ft (2.414 m) Mar. 21, 1968.

Flood of Mar. 19, 1936, reached a discharge of 4,700 ft^3/s (133 m^3/s), by computation of flow over dam about 0.5 mi (0.8 km) upstream.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by mills, by Lake Chaubunagungamaug (estimated usable capacity, 207,000,000 ft^3 or 5,860,000 m^3), by Buffumville Lake and Hodges Village Reservoir (see p. 127), and by smaller reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1721: 1959 (adjusted monthly and yearly figures only). WRD Mass., N.H., R.I., Vt., 1969: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	UCT	NUV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	88	412	438	216	141	184	306	169	433	68	32
2	60	97	404	626	320	142	269	247	157	507	81	35
3	56	128	368	651	660	152	464	216	149	384	124	35
4	54	148	334	554	653	183	507	206	140	244	159	33
5	53	142	379	478	788	226	504	200	134	209	147	33
6	52	133	441	415	873	237	522	188	132	223	115	61
7	100	125	691	332	839	232	468	179	132	230	84	45
8	210	145	860	289	735	240	377	171	128	202	68	39
9	200	263	767	254	540	321	305	168	118	178	105	35
10	180	430	692	241	403	386	323	182	105	142	147	32
11	140	408	659	236	319	312	433	216	90	126	136	32
12	115	293	635	221	271	259	490	240	70	142	111	32
13	120	240	491	207	249	239	406	247	125	134	96	32
14	105	252	479	183	238	234	291	226	159	113	79	39
15	110	376	450	180	245	220	233	209	157	99	99	58
16	105	487	367	183	244	191	219	200	140	94	103	48
17	100	418	357	182	236	225	202	194	120	84	96	43
18	94	315	350	179	222	333	190	185	97	77	82	84
19	90	259	330	177	208	463	186	173	86	68	73	120
20	83	363	328	261	193	397	180	171	79	60	77	114
21	76	515	318	276	194	298	171	203	65	86	70	84
22	68	541	349	353	194	245	165	254	70	96	63	65
23	66	437	391	410	196	216	162	261	157	90	58	86
24	71	332	404	537	189	195	173	226	216	73	54	90
25	68	284	391	462	180	180	171	200	209	61	49	114
26	65	340	379	332	177	187	179	176	169	63	54	126
27	62	535	382	266	167	203	216	165	152	86	43	114
28	65	606	367	241	147	207	320	162	172	92	39	101
29	88	528	328	242	------	192	408	173	190	86	39	90
30	93	425	297	237	------	181	383	179	240	79	38	101
31	93	------	297	236	------	175	------	181	------	68	33	------
TOTAL	2,904	9,653	13,697	9,879	9,896	7,412	9,101	6,304	4,127	4,629	2,590	1,953
MEAN	93.7	322	442	319	353	239	303	203	138	149	83.5	65.1
MAX	210	606	860	651	873	463	522	306	240	507	159	126
MIN	52	88	297	177	147	141	162	162	65	60	33	32
MEAN†	93.7	326	441	317	354	238	308	199	141	145	81.5	67.7
CFSM†	1.10	3.82	5.17	3.72	4.15	2.79	3.61	2.33	1.65	1.70	.96	.79
IN†	1.27	4.26	5.96	4.29	4.32	3.22	4.03	2.69	1.84	1.97	1.10	.89

CAL YR 1972 TOTAL 100,258 MEAN 274 MAX 866 MIN 35 MEAN† 274 CFSM† 3.21 IN† 43.73
WTR YR 1973 TOTAL 82,145 MEAN 225 MAX 873 MIN 32 MEAN† 225 CFSM† 2.64 IN† 35.84

† Adjusted for change in contents in Buffumville Lake and Hodges Village Reservoir.

NOTE.--No gage-height record Oct. 1-18. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01126200 Bucks Horn Brook at Greene, R.I.

LOCATION.--Lat 41°41'35", long 71°44'38", Kent County, on left bank 35 ft (11 m) upstream from culvert on State Highway 117 at Greene and 0.5 mi (0.8 km) upstream from Warwick Brook.

DRAINAGE AREA.--5.52 mi^2 (14.30 km^2).

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 410 ft (125 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 11.6 ft^3/s (0.329 m^3/s), 28.54 in/yr (725 mm/yr).

EXTREMES.--Current year: Maximum discharge, 250 ft^3/s (7.08 m^3/s) Feb. 3 (gage height, 4.70 ft or 1.433 m), from rating curve extended above 79 ft^3/s (2.24 m^3/s) on basis of measurement of peak flow through culvert at gage height 5.49 ft (1.673 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Aug. 12, 13-15.

Period of record: Maximum discharge, 353 ft^3/s (10.0 m^3/s) Mar. 18, 1968 (gage height, 5.49 ft or 1.673 m), from rating curve extended above 79 ft^3/s (2.24 m^3/s) on basis of measurement of peak flow through culvert; minimum, 0.27 ft^3/s (0.008 m^3/s) Aug. 17-19, Sept. 10-13, 1965.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	11	34	64	17	10	13	19	12	55	3.1	3.9
2	3.6	11	38	57	34	10	49	17	10	28	3.4	3.9
3	3.0	17	29	36	172	10	44	16	9.1	13	5.8	4.7
4	2.9	18	25	31	62	16	29	16	8.6	10	4.9	3.9
5	2.7	14	40	31	42	24	41	16	8.6	13	3.3	3.1
6	2.7	11	53	29	34	18	32	14	8.4	17	2.5	4.3
7	19	10	124	22	29	14	23	13	7.9	9.8	2.0	10
8	44	13	58	17	28	17	20	12	7.5	6.8	1.8	5.8
9	21	81	55	15	28	26	22	16	6.3	5.4	1.7	3.6
10	10	55	51	14	23	21	31	30	5.6	4.7	1.7	3.7
11	7.9	33	41	14	20	16	49	22	4.7	8.9	1.5	5.9
12	7.5	26	33	14	18	15	31	20	3.9	15	1.5	5.0
13	8.2	22	31	13	17	15	24	16	4.0	9.4	1.5	2.8
14	9.1	31	32	12	16	13	20	14	6.3	6.1	1.4	2.5
15	9.6	82	29	11	21	13	18	13	5.0	10	54	13
16	9.4	47	29	12	28	12	17	15	4.0	19	77	13
17	9.6	35	29	13	21	16	16	15	3.9	11	27	6.1
18	9.1	30	26	13	17	26	16	14	3.6	6.5	14	7.9
19	8.6	25	23	14	15	21	15	18	3.6	5.0	9.9	15
20	11	58	25	24	15	15	15	13	3.6	4.3	8.1	8.9
21	11	63	25	23	15	14	14	41	3.3	8.1	7.7	5.8
22	11	39	40	16	16	13	12	39	4.0	13	6.8	4.7
23	9.6	31	50	33	16	13	12	22	7.7	7.5	7.9	9.9
24	8.6	27	43	33	14	12	13	19	5.4	4.9	6.1	12
25	8.2	25	37	21	13	11	13	17	4.0	3.9	5.0	8.9
26	7.5	41	32	16	13	14	18	15	3.7	3.6	4.5	7.2
27	7.0	64	31	15	12	20	52	14	6.1	4.3	3.9	7.0
28	7.0	39	28	21	11	15	52	14	14	4.3	3.9	5.4
29	15	33	25	31	------	12	33	19	19	3.7	3.9	4.5
30	19	30	22	33	------	12	23	15	45	3.6	3.3	4.0
31	15	------	23	23	------	11	------	13	------	3.3	2.8	------
TOTAL	321.5	1,022	1,161	721	767	475	767	557	238.8	318.1	281.9	196.4
MEAN	10.4	34.1	37.5	23.3	27.4	15.3	25.6	18.0	7.96	10.3	9.09	6.55
MAX	44	82	124	64	172	26	52	41	45	55	77	15
MIN	2.7	10	22	11	11	10	12	12	3.3	3.3	1.4	2.5
CFSM	1.88	6.18	6.79	4.22	4.96	2.77	4.64	3.26	1.44	1.87	1.65	1.19
IN.	2.17	6.89	7.82	4.86	5.17	3.20	5.17	3.75	1.61	2.14	1.90	1.32

CAL YR 1972 TOTAL 6,955.7 MEAN 19.0 MAX 153 MIN 1.3 CFSM 3.44 IN 46.88
WTR YR 1973 TOTAL 6,826.7 MEAN 18.7 MAX 172 MIN 1.4 CFSM 3.39 IN 46.01

PEAK DISCHARGE (BASE, 60 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1215	3.49	109	1-1	1630	3.26	88
11-15	0415	3.36	97	2-3	0545	4.70	250
11-20	1815	3.30	92	4-2	1530	2.97	64
11-27	0045	3.18	81	7-1	0115	2.94	61
12-7	0530	4.03	168	8-15	2315	3.59	120

THAMES RIVER BASIN

Reservoirs in Thames River basin

01123350 **EAST BRIMFIELD LAKE** on Quinebaug River, 0.7 mi (1.1 km) southwest of Fiskdale, Mass., 1.2 mi (1.9 km) east of East Brimfield, completed in 1960, used for flood control, conservation, and recreation, has usable capacity of 1,400,000,000 ft^3 (39,600,000 m^3). Records furnished by Corps of Engineers.

01123550 **WESTVILLE LAKE** on Quinebaug River, 1.3 mi (2.1 km) west of Southbridge, Mass., completed in 1962, used for flood control and recreation, has usable capacity of 484,000,000 ft^3 (13,700,000 m^3). Records furnished by Corps of Engineers.

01124300 **HODGES VILLAGE RESERVOIR** on French River at Hodges Village, Mass., 0.8 mi (1.3 km) west of Oxford, completed in 1960 for flood control, has usable capacity of 577,000,000 ft^3 (16,300,000 m^3). Records furnished by Corps of Engineers.

01124400 **BUFFUMVILLE LAKE** on Little River at Buffumville, Mass., 2.2 mi (3.5 km) west of Oxford, completed in 1958, used for flood control and recreation, has usable capacity of 555,000,000 ft^3 (15,700,000 m^3). Records furnished by Corps of Engineers.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	East Brimfield Lake	Westville Lake	Hodges Village Reservoir	Buffumville Lake
Sept. 30, 1972	104.4	4.7	0.5	62.7
Oct. 31	107.7	5.3	.6	62.7
Nov. 30	122.1	6.7	2.4	71.4
Dec. 31	117.6	6.7	2.1	69.7
Jan. 31, 1973	116.0	6.6	1.5	66.2
Feb. 28	111.0	5.8	1.1	67.1
Mar. 31	114.3	6.2	1.3	64.5
Apr. 30	148.1	6.4	2.8	74.3
May 31	109.3	6.2	1.6	64.5
June 30	114.3	6.4	2.4	72.4
July 31	104.4	4.9	.9	63.6
Aug. 31	102.7	4.7	.7	58.4
Sept. 30	107.7	5.2	1.4	64.5

01127880 Big Brook near Pittsburg, N.H.

LOCATION.--Lat 45°08'06", long 71°12'23", Coos County, on left bank 10 ft (3 m) downstream from culvert on U. S. Highway 3, 0.3 mi (0.5 km) upstream from mouth, and 11 mi (18 km) northeast of Pittsburg.

DRAINAGE AREA.--6.36 mi² (16.47 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,680 ft (512 m) from topographic map.

AVERAGE DISCHARGE.--9 years (1964-73), 14.5 ft³/s (0.411 m³/s), 30.96 in/yr (786 mm/yr).

EXTREMES.--Current year: Maximum discharge, 236 ft³/s (6.68 m³/s) Apr. 23 (gage height, 3.44 ft or 1.049 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 5, 6.

Period of record: Maximum discharge, 441 ft³/s (12.5 m³/s) May 3, 1967 (gage height, 3.61 ft or 1.100 m), from rating curve extended above 110 ft³/s (3.12 m³/s); maximum gage height, 5.02 ft (1.530 m) Dec. 27, 1969 (ice jam); minimum discharge not determined (occurred during period of ice effect in 1968 water year); minimum daily, 1.3 ft³/s (0.037 m³/s) Mar. 8, 12, 15, 1968.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE
1	6.2	10	7.6	12	11	3.8	48	41	50	47	1.8	1.5
2	4.6	10	7.2	9.7	13	3.7	52	42	30	35	3.5	1.4
3	3.6	21	6.8	8.5	19	3.7	37	65	22	32	3.0	1.4
4	3.1	19	6.5	7.8	28	5.0	30	73	18	24	2.6	1.4
5	2.6	16	7.0	7.4	16	6.2	31	41	16	22	2.2	1.4
6	2.6	14	12	6.4	13	5.2	26	32	14	16	1.8	7.5
7	4.3	12	35	5.2	11	5.2	22	28	13	12	1.7	13
8	9.4	12	28	4.5	10	13	19	24	11	9.9	1.6	5.8
9	9.4	28	20	5.8	9.0	21	17	21	9.8	7.7	3.5	4.4
10	6.9	23	15	5.8	8.1	16	16	20	8.1	6.4	7.0	3.6
11	5.5	18	12	5.4	7.5	14	15	20	6.9	8.7	7.6	3.1
12	5.8	16	10	4.9	7.0	28	13	23	9.0	6.7	7.0	2.8
13	7.7	14	13	4.6	6.6	57	11	22	10	5.5	4.7	2.4
14	7.3	13	11	4.4	6.1	35	11	18	7.7	6.4	3.0	2.1
15	8.5	11	10	4.3	5.9	26	14	15	6.5	5.3	2.5	2.0
16	8.5	11	9.0	4.2	5.5	30	23	17	13	4.6	2.3	2.2
17	8.5	9.0	8.3	4.1	5.3	47	50	16	18	3.9	1.8	2.4
18	8.7	8.5	8.0	4.0	5.1	91	90	14	11	3.4	1.9	49
19	7.6	7.7	7.5	4.2	4.9	54	115	17	9.0	3.0	2.2	40
20	7.3	9.0	7.0	9.0	4.7	34	114	20	6.9	2.9	1.8	17
21	6.9	8.1	6.6	22	4.6	26	99	35	6.5	3.0	1.5	12
22	5.5	7.3	6.1	19	4.5	21	144	39	14	2.8	1.8	19
23	8.5	6.9	5.8	25	4.3	18	212	29	9.0	2.3	2.7	50
24	19	6.5	5.5	30	4.2	16	113	22	6.9	2.2	1.9	24
25	21	6.2	5.2	20	4.1	15	91	18	6.9	1.8	1.6	16
26	16	8.5	5.2	14	4.0	15	63	16	6.2	1.7	1.5	12
27	12	12	5.4	13	3.9	16	51	14	5.2	1.7	1.5	10
28	11	10	5.2	12	3.9	16	92	15	6.2	1.7	3.9	9.4
29	13	9.4	5.0	11	------	16	97	23	5.5	3.4	2.6	7.9
30	14	8.1	6.0	10	------	18	57	21	28	2.4	2.2	6.9
31	11	------	8.0	10	------	32	------	38	------	2.0	1.8	------
TOTAL	266.0	365.2	304.9	308.2	230.2	707.8	1,773	840	384.3	287.4	86.5	331.6
MEAN	8.58	12.2	9.84	9.94	8.22	22.8	59.1	27.1	12.8	9.27	2.79	11.1
MAX	21	28	35	30	28	91	212	73	50	47	7.6	50
MIN	2.6	6.2	5.0	4.0	3.9	3.7	11	14	5.2	1.7	1.5	1.4
CFSM	1.35	1.92	1.55	1.56	1.29	3.58	9.29	4.26	2.01	1.46	.44	1.75
IN.	1.56	2.14	1.78	1.80	1.35	4.14	10.37	4.91	2.25	1.68	.51	1.94

CAL YR 1972 TOTAL 5,781.8 MEAN 15.8 MAX 220 MIN 1.5 CFSM 2.48 IN 33.82
WTR YR 1973 TOTAL 5,885.1 MEAN 16.1 MAX 212 MIN 1.4 CFSM 2.53 IN 34.42

PEAK DISCHARGE (BASE, 180 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-23	1545	3.44	236				

01128500 Connecticut River at First Connecticut Lake, near Pittsburg, N.H.

LOCATION.--Lat 45°05'14", long 71°17'34", Coos County, on right bank 0.2 mi (0.3 km) downstream from dam at First Connecticut Lake and 6 mi (10 km) northeast of Pittsburg, and at mile 392.0 (kilometre 630.7).

DRAINAGE AREA.--83.0 mi^2 (215.0 km^2).

PERIOD OF RECORD.--April 1917 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map. Prior to Jan. 1, 1918, discharge computed from flow through gates at dam 0.2 mi (0.3 km) upstream. Jan. 1 to July 28, 1918, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--56 years, 195 ft^3/s (5.522 m^3/s), 31.90 in/yr (810 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 810 ft^3/s (22.9 m^3/s) June 2 (gage height, 3.50 ft or 1.067 m); minimum daily, 6.1 ft^3/s (0.17 m^3/s) Mar. 16, 19-31.

Period of record: Maximum discharge, 7,200 ft^3/s (204 m^3/s) June 16, 1943 (gage height, 6.25 ft or 1.905 m), from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of computation of flow over dam at gage height 6.12 ft (1.865 m); maximum gage height, 6.35 ft (1.935 m) May 5, 1925 (backwater from logging operations); minimum daily discharge, 3.1 ft^3/s (0.088 m^3/s) Mar. 17, 18, 1929.

REMARKS.--Records good. Flow completely regulated by First Connecticut and Second Connecticut Lakes (see p. 215).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1001: 1931-39. WSP 1231: 1921-23(M), 1925-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	53	136	527	411	472	6.7	11	199	17	74	154
2	131	53	136	520	405	460	6.7	11	472	176	74	154
3	101	55	136	527	405	455	6.7	12	472	546	77	154
4	101	55	136	520	400	444	6.7	12	478	546	77	154
5	70	55	136	514	416	460	6.7	12	455	546	77	154
6	52	55	136	514	422	466	6.7	12	370	540	77	154
7	52	55	136	514	416	455	6.7	12	245	540	77	154
8	52	55	139	527	416	449	6.7	12	299	540	77	154
9	52	34	142	533	416	438	6.7	14	81	405	77	154
10	52	14	142	527	416	444	6.7	14	81	324	77	154
11	52	14	390	520	411	438	6.7	13	81	324	77	154
12	52	15	527	520	411	433	7.3	15	81	324	77	154
13	53	15	520	514	411	433	7.3	19	81	231	101	154
14	53	66	520	508	449	256	7.3	21	83	101	163	320
15	53	92	520	520	478	7.3	7.3	77	64	101	163	418
16	53	92	514	455	472	6.1	7.3	105	50	101	163	416
17	53	92	514	390	472	6.7	7.3	105	50	101	163	415
18	53	92	527	390	466	6.7	7.3	108	50	101	160	415
19	53	92	540	385	460	6.1	8.0	108	50	101	160	415
20	53	92	540	385	466	6.1	8.0	110	50	101	160	414
21	53	120	533	385	478	6.1	8.0	189	50	101	160	322
22	53	136	533	385	472	6.1	8.7	411	50	101	157	220
23	53	136	527	245	484	6.1	8.7	411	48	101	157	220
24	53	136	520	160	490	6.1	8.7	329	48	81	157	220
25	53	136	514	160	484	6.1	9.4	210	70	72	157	220
26	53	136	514	163	478	6.1	9.4	154	123	72	157	220
27	53	136	514	163	472	6.1	9.4	157	151	72	157	220
28	53	136	514	163	472	6.1	11	157	151	74	157	220
29	53	136	533	283	------	6.1	11	157	151	74	157	220
30	53	136	533	411	------	6.1	11	145	81	74	157	220
31	53	------	533	411	------	6.1	------	70	------	74	154	------
TOTAL	1,943	2,490	12,255	12,739	12,449	6,209.1	236,1	3,193	4,715	6,662	3,878	7,117
MEAN	62,7	83,0	395	411	445	200	7,87	103	157	215	125	237
MAX	169	136	540	533	490	472	11	411	478	546	163	418
MIN	52	14	136	160	400	6.1	6.7	11	48	17	74	154
MEAN†	112	161	143	120	81.9	251	664	413	194	130	50.8	158
CFSM†	1.35	1.94	1.72	1.45	.99	3.02	8.00	4.98	2.34	1.57	.61	1.90
IN.†	1.56	2.17	1.99	1.67	1.03	3.49	8.93	5.73	2.61	1.81	.71	2.12

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CAL YR 1972  TOTAL 68,802,5   MEAN 188   MAX 786   MIN 4,8      MEAN†  223    CFSM†  2.69    IN†  36.52
WTR YR 1973  TOTAL 73,886,2   MEAN 202   MAX 546   MIN 6,1      MEAN†  207    CFSM†  2.49    IN†  33.80
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† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes.

01129200 Connecticut River below Indian Stream, near Pittsburg, N.H.

LOCATION.--Lat 45°02'25", long 71°26'37", Coos County, on right bank 1,200 ft (350 m) downstream from Indian Stream, 2.5 mi (4.0 km) west of Pittsburg, and at mile 376.5 (605.8 km).
DRAINAGE AREA.--254 mi² (658 km²).
PERIOD OF RECORD.--October 1956 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 1,150 ft (351 m) from topographic map.
AVERAGE DISCHARGE.--17 years, 553 ft³/s (15.66 m³/s) 29.57 in/yr (751 mm/yr), adjusted for storage.
EXTREMES.--Current year: Maximum discharge, 2,890 ft³/s (81.8 m³/s) July 1 (gage height, 5.97 ft or 1.820 m); minimum daily, 42 ft³/s (1.19 m³/s) Oct. 6.

Period of record: Maximum discharge, 4,080 ft³/s or 116 m³/s (revised) Nov. 29, 1959 (gage height, 7.07 ft or 2.155 m), from rating curve extended above 2,600 ft³/s (73.6 m³/s); minimum daily, 30 ft³/s (0.850 m³/s) Aug. 6, 1965.

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in the water-supply papers and WRD report indicated.

WSP	Water year	Date	Discharge (ft³/s)	Gage height (feet)
1551, 1721	1958	Apr. 22, 1958	2,980	6.06
1701, 1721	1960	Nov. 29, 1959	4,080	7.07
WRD Mass., N.H., R.I., Vt. 1969	1969	May 21, 1969	4,000	7.00

REMARKS.--Records excellent. Flow regulated by First Connecticut and Second Connecticut Lakes and Lake Francis 3.7 mi (6.0 km) upstream (see p. 215).
REVISIONS.--Revised figures of discharge, in cubic feet per second, for high-water period in water year 1958, superseding figures published in WSP 1551 and 1721 are given below:

Apr. 22, 1958......2,730

Month	Cfs days	Mean	Maximum	Minimum	Mean†	Per square mile†	Runoff in inches†
April 1958	22,545	752	2,730	113	2,197	8.65	9.65
WTR YR 1958	229,429	629	2,730	55	643	2.53	34.35
CAL YR 1958	232,874	638	2,730	55	556	2.19	29.71

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	139	390	1,070	1,100	1,410	788	409	682	2,040	104	336
2	185	126	376	1,120	1,110	1,350	963	385	656	809	116	332
3	108	250	376	1,140	1,030	1,150	741	511	585	1,190	121	332
4	51	404	376	1,110	695	1,150	565	802	523	1,400	116	332
5	43	319	371	1,100	682	1,150	656	494	494	1,400	126	327
6	42	277	409	1,080	906	1,160	478	404	472	1,430	187	483
7	49	261	708	1,070	1,200	1,180	367	358	445	1,370	344	741
8	155	257	683	1,070	1,170	1,230	302	310	419	1,340	344	553
9	165	511	572	1,070	1,150	1,430	257	323	349	1,220	344	261
10	116	440	511	1,100	1,130	1,470	238	298	294	1,120	349	80
11	88	298	747	1,100	1,110	1,370	220	234	257	1,190	376	70
12	80	250	872	1,060	1,290	1,590	199	344	353	1,160	394	63
13	113	230	925	1,050	1,390	2,310	188	381	572	250	381	56
14	108	213	964	1,040	1,390	1,700	165	285	489	302	358	409
15	113	185	937	1,030	1,420	591	185	261	319	277	349	741
16	121	153	924	1,030	1,420	689	261	290	314	285	327	734
17	113	120	899	938	1,430	935	689	277	472	199	340	836
18	128	126	874	879	1,460	1,510	1,260	242	367	172	336	951
19	101	118	867	882	1,460	942	1,270	298	358	156	367	969
20	84	121	976	1,020	1,460	523	1,180	319	358	142	353	947
21	76	116	1,070	1,130	1,450	404	985	478	306	153	344	1,050
22	74	220	1,070	1,130	1,430	327	1,150	788	394	159	340	1,100
23	88	362	1,070	921	1,420	273	1,500	598	340	159	340	1,030
24	250	367	1,060	793	1,420	246	1,070	404	314	131	336	456
25	310	381	1,040	728	1,410	242	637	349	394	108	332	1,050
26	206	390	1,050	611	1,410	269	478	277	559	108	332	1,140
27	156	445	1,060	535	1,410	294	404	202	611	113	327	1,240
28	133	445	1,060	500	1,410	273	467	234	630	118	362	1,310
29	175	414	1,050	591	------	281	676	344	650	150	344	1,300
30	223	385	1,050	965	------	323	535	381	1,280	162	223	1,280
31	172	------	1,050	1,120	------	535	------	456	------	128	336	------
TOTAL	4,006	8,323	25,347	29,983	35,363	28,307	18,834	11,736	14,256	18,941	9,348	20,509
MEAN	129	277	818	967	1,263	913	628	379	475	611	302	684
MAX	310	511	1,070	1,140	1,460	2,310	1,500	802	1,280	2,040	394	1,310
MIN	42	116	371	500	682	242	165	202	257	108	104	56
MEAN†	291	443	410	439	308	980	1,858	1,102	643	465	132	430
CFSM†	1.15	1.74	1.61	1.73	1.53	3.86	7.31	4.34	2.53	1.83	.52	1.69
IN.†	1.32	1.95	1.86	2.00	1.59	4.45	8.16	5.00	2.82	2.11	.60	1.89

CAL YR 1972 TOTAL 197,304 MEAN 539 MAX 3,070 MIN 42 MEAN† 607 CFSM† 2.39 IN† 32.55
WTR YR 1973 TOTAL 224,953 MEAN 616 MAX 2,310 MIN 42 MEAN† 631 CFSM† 2.48 IN† 33.75

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01129300 Halls Stream near East Hereford, Quebec

(International gaging station)

LOCATION.--Lat 45°02'41", long 71°29'54", Compton County, on right bank opposite Alain's farm, 2.5 mi (4.0 km) downstream from East Hereford, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--85 mi² (220 km²).

PERIOD OF RECORD.--October 1962 to current year in reports of Geological Survey. October 1948 to September 1962 available from Water Survey of Canada, Department of the Environment.

GAGE.--Water-stage recorder. Altitude of gage is 1,090 ft (332 m) from topographic map. Prior to Dec. 13, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 167 ft³/s (4.729 m³/s), 26.68 in/yr (678 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,500 ft³/s (127 m³/s) June 30 (gage height, 13.07 ft or 3.984 m); minimum, 7.2 ft³/s (0.20 m³/s) Aug. 25-28.

Period of record: Maximum discharge, 4,500 ft³/s (127 m³/s) June 30, 1973 (gage height, 13.07 ft or 3.984 m); minimum observed, 4 ft³/s (0.11 m³/s) Sept. 10, 1960.

Flood in June 1943 reached a discharge of 21,000 ft³/s (595 m³/s), by slope-area method at site 0.5 mi (0.8 km) downstream.

REMARKS.--Records good except those for winter period, which are fair.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	95	80	135	120	38	813	256	310	1,410	15	15
2	35	90	73	170	120	37	983	205	207	507	16	13
3	25	239	72	220	135	37	613	268	155	339	18	11
4	20	265	70	170	400	35	505	587	125	228	22	10
5	18	170	66	130	220	39	589	308	111	184	22	9.8
6	16	143	153	115	180	47	377	279	97	137	18	155
7	17	140	736	100	160	96	291	244	82	103	15	305
8	376	140	323	92	140	362	251	181	70	81	13	103
9	201	622	264	82	120	724	208	156	64	66	13	62
10	108	430	185	77	105	432	190	146	58	56	13	50
11	71	250	140	75	98	304	168	141	47	96	32	39
12	62	220	115	68	90	1,090	148	192	153	81	37	35
13	108	190	145	65	84	1,500	136	233	232	61	28	29
14	79	160	200	62	77	773	131	170	123	52	23	24
15	97	130	135	59	73	562	172	137	99	47	20	23
16	96	100	115	56	68	993	348	259	227	40	18	23
17	100	75	105	53	65	1,170	804	208	381	34	16	23
18	92	80	105	51	61	1,800	941	151	179	30	13	365
19	68	73	100	55	58	729	827	191	121	26	15	506
20	53	75	93	115	56	430	649	300	91	25	12	165
21	45	75	85	300	53	313	493	496	78	26	11	138
22	42	60	80	250	52	258	562	775	197	25	10	169
23	79	54	75	340	49	219	647	480	115	21	10	742
24	291	59	73	430	47	200	375	287	85	19	8.8	262
25	252	58	71	245	46	202	264	216	102	17	7.9	165
26	158	75	70	185	44	285	205	179	134	16	7.2	117
27	118	203	67	160	43	318	159	148	84	15	7.2	92
28	97	135	65	140	40	255	203	168	98	15	87	83
29	184	110	63	130	------	263	337	255	93	21	47	73
30	177	75	61	125	------	345	318	247	1,730	22	25	63
31	119	------	58	120	------	605	------	255	------	18	19	------
TOTAL	3,249	4,591	4,043	4,375	2,804	14,461	12,714	8,118	5,648	3,818	619.1	3,869.8
MEAN	105	153	130	141	100	466	424	262	188	123	20.0	129
MAX	376	622	736	430	400	1,800	983	775	1,730	1,410	87	742
MIN	16	54	58	51	40	35	131	137	47	15	7.2	9.8
CFSM	1.24	1.80	1.53	1.66	1.18	5.48	4.99	3.08	2.21	1.45	.24	1.52
IN.	1.42	2.01	1.77	1.91	1.23	6.33	5.56	3.55	2.47	1.67	.27	1.69

CAL YR 1972 TOTAL 72,708.0 MEAN 199 MAX 2,700 MIN 10 CFSM 2.34 IN 31.82
WTR YR 1973 TOTAL 68,309.9 MEAN 187 MAX 1,800 MIN 7.2 CFSM 2.20 IN 29.90

PEAK DISCHARGE (BASE, 2,300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-30	1930	13.07	4,500				

01129500 Connecticut River at North Stratford, N.H.

LOCATION.--Lat 44°44'56", long 71°37'50", Coos County, on left bank at North Stratford, 400 ft (100 m) downstream from Nulhegan River, and at mile 344.5 (kilometre 554.3).

DRAINAGE AREA.--799 mi² (2,069 km²).

PERIOD OF RECORD.--August 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.17 ft (268.276 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 1,559 ft³/s (44.15 m³/s), 26.50 in/yr (673 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 15,800 ft³/s (447 m³/s) June 30 (gage height, 10.76 ft or 3.280 m); maximum gage height, 11.60 ft (3.536 m) Feb. 3 (backwater from ice); minimum daily discharge, 195 ft³/s (5.52 m³/s) Oct. 6.

Period of record: Maximum discharge, 28,700 ft³/s (813 m³/s) June 16, 1943 (gage height, 14.67 ft or 4.471 m) from rating curve extended above 15,000 ft³/s (425 m³/s); maximum gage height, 16.66 ft (5.078 m) Mar. 13, 1936 (ice jam); minimum daily discharge, 108 ft³/s (3.06 m³/s) Sept. 29, 1960.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes and Lake Francis (see p. 215) 36 miles (58 km) upstream.

REVISIONS (WATER YEARS).--WSP 781: 1934(M). WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	479	688	1,020	2,600	2,200	2,500	4,430	2,480	3,630	13,600	478	546
2	427	631	855	2,800	2,100	2,450	5,790	2,070	2,820	7,330	521	524
3	396	1,060	890	2,700	2,600	2,400	4,610	2,140	2,170	4,360	614	493
4	310	1,620	934	2,500	3,500	2,300	3,380	3,800	1,820	3,900	580	479
5	260	1,260	895	2,400	3,400	2,200	3,440	2,810	1,720	4,510	596	449
6	195	1,040	1,250	2,300	3,000	2,100	2,790	2,180	1,600	3,200	510	957
7	210	970	3,530	2,200	2,900	2,080	2,220	2,000	1,420	2,660	527	2,260
8	1,140	955	2,330	2,100	2,900	2,620	1,950	1,630	1,260	2,340	626	1,400
9	1,180	2,560	2,040	2,050	2,800	3,990	1,680	1,430	1,280	2,110	639	907
10	777	2,980	1,810	2,050	2,600	3,590	1,560	1,430	1,310	1,810	656	582
11	569	1,930	1,480	2,050	2,500	2,930	1,430	1,410	1,010	2,190	1,180	381
12	505	1,490	1,460	2,000	2,500	4,610	1,270	1,870	1,120	2,040	1,000	358
13	545	1,300	1,820	2,000	2,600	7,110	1,140	1,990	2,470	1,510	781	336
14	507	1,180	2,270	1,950	2,700	6,540	1,100	1,680	2,260	918	703	335
15	559	1,030	2,170	1,950	2,750	3,940	1,230	1,370	1,850	927	650	787
16	609	880	1,900	1,950	2,750	3,850	1,740	1,610	2,700	885	607	973
17	576	628	2,000	1,900	2,750	5,320	3,590	1,790	4,560	781	559	957
18	605	660	1,800	1,850	2,700	8,810	5,680	1,370	2,670	633	642	2,480
19	523	638	1,800	1,900	2,650	6,790	5,890	1,660	1,840	571	640	3,990
20	447	669	2,000	2,200	2,700	3,780	5,530	2,060	1,500	552	584	2,170
21	365	654	2,050	3,100	2,700	2,630	4,430	3,040	1,240	829	528	1,920
22	366	519	2,100	3,300	2,650	2,160	4,640	5,710	4,030	631	548	1,790
23	450	674	2,100	3,200	2,600	1,820	5,670	4,290	2,750	528	828	4,040
24	1,160	838	2,100	3,800	2,600	1,670	4,620	2,730	1,860	475	597	2,290
25	1,560	875	2,100	3,700	2,550	1,600	3,080	2,020	1,870	425	505	1,810
26	1,100	970	2,100	3,000	2,550	1,850	2,380	1,680	1,640	410	497	1,920
27	847	1,780	2,100	2,400	2,500	2,080	1,950	1,430	1,560	423	506	1,770
28	648	1,520	2,100	2,100	2,500	1,860	2,020	1,350	1,600	1,510	781	1,840
29	825	1,300	2,000	2,000	------	1,880	3,340	2,110	1,590	902	805	1,790
30	1,080	1,030	1,950	2,100	------	2,000	3,260	2,360	8,710	755	597	1,720
31	857	------	1,950	2,200	------	3,060	------	2,330	------	574	498	------
TOTAL	20,077	34,329	56,904	74,350	75,250	102,520	95,840	67,830	67,860	64,289	19,783	42,254
MEAN	648	1,144	1,836	2,398	2,688	3,307	3,195	2,188	2,262	2,074	638	1,408
MAX	1,560	2,980	3,530	3,800	3,500	8,810	5,890	5,710	8,710	13,600	1,180	4,040
MIN	195	519	855	1,850	2,100	1,600	1,100	1,350	1,010	410	478	335
MEAN†	809	1,310	1,428	1,871	1,812	3,374	4,425	2,911	2,429	1,928	469	1,155
CFSM†	1.01	1.64	1.79	2.34	2.27	4.22	5.54	3.64	3.04	2.41	.59	1.45
IN†	1.17	1.83	2.06	2.70	2.36	4.87	6.18	4.20	3.39	2.78	.68	1.61

CAL YR 1972 TOTAL 611,566 MEAN 1,671 MAX 19,200 MIN 195 MEAN† 1,739 CFSM† 2.18 IN† 29.64
WTR YR 1973 TOTAL 721,286 MEAN 1,976 MAX 13,600 MIN 195 MEAN† 1,991 CFSM† 2.49 IN† 33.84

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01130000 Upper Ammonoosuc River near Groveton, N.H.

LOCATION.--Lat 44°37'30", long 71°28'10", Coos County, on left bank 75 ft (23 m) upstream from highway bridge, 0.2 mi (0.3 km) downstream from Nash Stream, and 2.8 mi (4.5 km) northeast of Groveton.

DRAINAGE AREA.--232 mi² (601 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 473 ft³/s (13.40 m³/s), 27.69 in/yr (703 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 4,860 ft³/s (138 m³/s) July 1 (gage height, 6.83 ft or 2.082 m); minimum, 56 ft³/s (1.59 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 24,100 ft³/s (683 m³/s) May 20, 1969 (gage height, 12.01 ft or 3.661 m in gage well, 12.85 ft or 3.917 m, from floodmarks), from rating curve extended above 5,600 ft³/s (159 m³/s) on basis of contracted-opening measurement of peak flow, caused by failure of dam on Nash Stream; minimum, 32 ft³/s (0.91 m³/s) Sept. 14, 1948.

Flood in March 1936 reached a stage of about 10.6 ft (3.23 m), from information by local residents.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Prior to May 21, 1969, some regulation by pond 9 mi (14 km) upstream on Nash Stream. Small diversion above station for municipal supply of Berlin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	158	241	350	350	170	1.490	1.280	1.230	4.460	145	125
2	70	145	250	490	450	165	1.940	1.070	1.060	2.630	194	120
3	65	254	240	480	900	165	1.520	1.230	806	1.470	339	100
4	62	394	230	400	1.100	160	1.160	2.150	652	1.020	422	93
5	59	290	230	310	900	170	1.100	1.630	659	1.010	358	91
6	58	227	320	270	700	190	942	1.110	603	834	222	267
7	85	209	1.350	220	570	300	775	950	523	658	172	538
8	389	209	1.340	200	530	600	708	798	468	521	153	237
9	283	548	720	230	450	1.200	624	738	423	422	142	153
10	171	598	600	210	370	800	575	830	480	358	131	131
11	125	445	450	200	330	700	530	846	345	381	358	120
12	114	371	390	190	310	838	462	990	484	335	271	120
13	126	331	350	185	290	1.430	412	958	1.500	283	162	113
14	120	317	450	180	270	1.410	380	798	1.670	348	139	108
15	130	299	350	175	255	1.080	434	652	1.110	432	139	120
16	145	241	320	175	240	1.030	645	694	1.540	326	133	123
17	135	184	300	170	230	1.710	1.410	768	3.130	255	123	115
18	136	201	280	170	220	2.920	2.180	638	2.540	215	133	204
19	125	196	270	210	215	2.590	2.500	1.040	1.350	191	136	476
20	106	184	260	500	210	1.610	2.590	1.150	902	175	123	259
21	104	192	250	800	200	1.040	2.240	1.610	715	196	108	178
22	108	175	240	700	190	830	2.400	2.860	1.010	187	103	165
23	123	171	230	900	190	680	3.820	2.430	982	153	115	498
24	236	166	220	1,200	185	631	3.620	1.480	768	136	108	367
25	263	166	215	1,000	180	610	2.340	1.040	723	125	95	248
26	201	209	210	750	175	730	1.710	862	631	123	91	194
27	162	587	205	550	175	822	1.280	723	510	125	91	165
28	136	521	195	450	170	730	1.350	652	523	437	153	150
29	149	394	190	420	------	730	2.060	878	530	381	153	139
30	205	322	200	380	------	790	1.880	910	2.610	251	115	131
31	196	------	220	360	------	1.080	------	870	------	175	105	------
TOTAL	4.467	8.704	11.316	12.825	10.355	27.911	45.077	34.635	30.477	18.615	5.232	5.848
MEAN	144	290	365	414	370	900	1.503	1.117	1.016	600	169	195
MAX	389	598	1.350	1.200	1.100	2.920	3.820	2.860	3.130	4.460	422	538
MIN	58	145	190	170	170	160	380	638	345	123	91	91
MEAN†	147	293	368	416	373	903	1.506	1.120	1.019	603	172	198
CFSM†	.63	1.26	1.59	1.79	1.61	3.89	6.49	4.83	4.39	2.60	.74	.85
IN†	.73	1.41	1.83	2.07	1.67	4.49	7.24	5.57	4.90	3.00	.85	.95

CAL YR 1972 TOTAL 187.464 MEAN 512 MAX 6.200 MIN 50 MEAN† 515 CFSM† 2.22 IN† 30.22
WTR YR 1973 TOTAL 215.462 MEAN 590 MAX 4.460 MIN 58 MEAN† 593 CFSM† 2.56 IN† 34.71

PEAK DISCHARGE (BASE, 2,900 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0545	5.42	2,980				
4-23	2045	6.22	4,420				
5-22	1745	5.45	3,030				
6-17	2000	5.69	3,420				
7-1	1100	6.83	4,860				

† Adjusted for diversion for municipal supply of Berlin. Records of diversion furnished by city of Berlin.

NOTE.--No gage-height record Oct. 1-4.

01131500 Connecticut River near Dalton, N.H.

LOCATION.--Lat 44°24'36", long 71°43'16", Coos County, on left bank 250 ft (76 m) upstream from highway bridge, 1,200 ft (350 m) downstream from dam of Gilman Paper Co., 1.2 mi (1.9 km) downstream from Dalton, and at mile 300.1 (kilometre 482.9).

DRAINAGE AREA.--1,514 mi² (3,921 km²).

PERIOD OF RECORD.--March 1927 to current year. Published as "at Waterford, Vt." 1927-35. Records published for both sites January to September 1935.

GAGE.--Water-stage recorder. Datum of gage is 799.89 ft (243.806 m) above mean sea level. Prior to Sept. 30, 1935, nonrecording gage at bridge 10.5 mi (16.9 km) downstream at mean sea level. Jan. 1, 1935, to June 29, 1937, nonrecording gage at bridge 250 ft (76 m) downstream at present datum. Since June 2, 1961, auxiliary water-stage recorder 10.8 mi (17.4 km) downstream from base gage. July 11, 1956, to June 1, 1961, auxiliary nonrecording gage read hourly at same site.

AVERAGE DISCHARGE.--46 years, 2,853 ft³/s (80.80 m³/s), 25.59 in/yr (650 mm/yr), adjusted to drainage area at present site and for storage.

EXTREMES.--Current year: Maximum discharge, 20,800 ft³/s (589 m³/s) July 2 (gage height, 18.04 ft or 5.50 m); minimum daily, 575 ft³/s (16.3 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 48,300 ft³/s (1,370 m³/s) Mar. 20, 1936 (gage height, 25.6 ft or 7.80 m); minimum daily, 115 ft³/s (3.26 m³/s) Oct. 3, 1937.

REMARKS.--Records good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis (see p. 215), and other reservoirs. These reservoirs have a combined usable capacity of about 8,300,000,000 ft³ (240,000,000 m³).

REVISIONS (WATER YEARS).--WSP 891: Drainage area. WSP 1231: 1935. WSP 1301: 1928-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	962	1,380	1,400	2,170	2,490	2,300	6,840	6,320	5,880	19,200	1,420	952
2	757	1,260	1,340	3,590	2,980	2,360	9,040	5,040	6,130	20,300	1,050	1,190
3	731	1,260	1,410	4,000	3,900	2,360	9,910	4,670	4,980	15,000	1,100	1,090
4	674	1,620	1,420	3,510	7,100	2,280	7,960	6,690	4,000	9,050	1,580	931
5	629	2,220	1,380	3,240	7,170	2,320	6,820	7,310	3,700	7,310	1,740	777
6	575	1,663	1,540	3,556	5,700	2,550	6,370	5,730	3,530	6,450	1,420	1,000
7	575	1,520	3,420	2,600	4,440	2,630	5,400	4,730	3,200	5,160	1,220	2,080
8	643	1,530	5,130	2,250	4,260	3,140	4,620	4,080	2,910	4,280	1,050	2,910
9	1,700	2,210	4,220	2,150	4,070	5,670	4,040	3,540	2,540	3,720	1,220	2,430
10	1,700	4,360	3,720	2,100	3,500	6,520	3,620	3,460	2,520	3,180	1,130	1,840
11	1,280	1,930	3,100	2,100	3,090	6,070	3,410	3,490	2,400	2,980	1,610	1,180
12	1,040	2,150	2,450	2,100	2,850	6,010	3,020	3,800	2,020	3,280	2,360	910
13	973	2,230	2,380	2,050	2,800	8,640	2,780	4,260	3,010	2,920	1,760	854
14	900	2,050	2,120	2,070	2,940	10,900	2,620	4,100	5,830	2,590	1,360	826
15	654	1,490	2,420	2,070	3,030	10,500	2,600	3,480	4,930	2,460	1,260	777
16	1,630	1,760	2,510	2,110	3,060	8,660	2,870	3,280	4,420	2,190	1,180	1,260
17	1,280	1,580	2,470	2,110	2,970	8,800	4,490	3,940	11,000	1,850	1,060	1,280
18	1,400	1,293	2,170	2,100	2,730	13,200	7,580	3,520	10,100	1,590	1,050	1,710
19	1,190	1,160	2,130	2,100	2,500	15,400	9,423	3,520	6,600	1,390	1,420	3,650
20	915	1,090	2,290	2,780	2,640	12,500	10,200	4,480	4,360	1,220	1,130	4,500
21	665	1,190	2,260	5,010	2,700	7,620	9,620	5,370	3,400	1,220	1,170	3,060
22	666	1,180	2,320	5,460	2,660	5,590	8,720	9,280	4,280	1,510	1,030	2,630
23	644	477	2,410	5,700	2,080	4,580	10,300	10,500	6,130	1,260	1,090	3,420
24	1,200	465	2,410	7,740	2,820	4,030	11,200	7,900	4,660	805	1,340	4,950
25	1,440	1,300	2,420	7,620	2,520	3,770	9,340	5,590	3,960	738	1,160	3,320
26	1,930	1,370	2,430	6,150	2,400	3,930	6,720	4,370	3,700	791	954	2,750
27	1,940	2,130	2,410	4,820	2,320	4,400	5,240	3,460	3,230	903	961	2,610
28	1,420	2,420	2,330	4,010	2,290	4,520	4,540	3,240	3,140	1,610	1,200	2,490
29	1,260	2,580	2,260	3,490	------	4,250	5,640	3,820	3,390	2,390	1,440	2,420
30	1,300	2,090	2,090	2,990	------	4,300	7,240	4,970	8,570	1,940	1,460	2,420
31	1,530	------	1,990	2,650	------	5,080	------	4,660	------	1,790	1,170	------
TOTAL	33,417	55,762	75,430	105,960	93,620	184,860	192,250	152,850	139,720	131,107	40,495	62,017
MEAN	1,078	1,859	2,433	3,419	3,344	5,963	6,408	4,931	4,657	4,229	1,306	2,067
MAX	1,930	4,360	5,130	7,740	7,170	15,400	11,200	10,500	11,000	20,300	2,360	4,950
MIN	575	477	1,340	2,050	2,080	2,280	2,600	3,240	2,020	738	954	777
MEAN†	1,239	2,024	2,026	2,891	2,468	6,030	7,639	5,654	4,825	4,083	1,137	1,814
CFSM†	.82	1.34	1.34	1.91	1.63	3.98	5.05	3.73	3.19	2.70	.75	1.20
IN.†	.94	1.49	1.54	2.20	1.70	4.57	5.63	4.31	3.56	3.11	.87	1.34

CAL YR 1972 TOTAL 1,079,062 MEAN 2,948 MAX 30,900 MIN 520 MEAN† 3,016 CFSM† 1.99 IN† 27.13
WTR YR 1973 TOTAL 1,267,664 MEAN 3,473 MAX 20,300 MIN 575 MEAN† 3,488 CFSM† 2.30 IN† 31.28

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01133000 East Branch Passumpsic River near East Haven, Vt.

LOCATION.--Lat 44°38'02", long 71°53'53", Caledonia County, on right bank in Burke, 0.5 mi (0.8 km) upstream from Flower Brook, 2.1 mi (3.4 km) south of East Haven, and 8.4 mi (13.5 km) upstream from mouth.

DRAINAGE AREA.--53.8 mi² (139.3 km²).

PERIOD OF RECORD.--July 1939 to October 1945, October 1948 to current year. Prior to October 1951, published as Passumpsic River near East Haven.

GAGE.--Water-stage recorder. Datum of gage is 945.88 ft (288.304 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--31 years, 102 ft³/s (2.889 m³/s), 25.75 in/yr (654 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,450 ft³/s (126 m³/s) June 30 (gage height, 9.45 ft or 2.880 m, from floodmarks in gage well), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 30 ft³/s (0.85 m³/s) Sept. 6.

Period of record: Maximum discharge, 4,450 ft³/s (126 m³/s) June 30, 1973 (gage height, 9.45 ft or 2.880 m, from floodmarks in gage well), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of peak flow; minimum, 13 ft³/s (0.37 m³/s) Sept. 1-5, 1953.

Flood in November 1927 reached a stage of about 12.6 ft (3.84 m), from information by local resident.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	67	89	170	80	63	450	228	350	2,000	65	44
2	44	68	79	138	110	63	700	202	250	700	108	40
3	41	112	75	114	250	62	500	224	190	410	96	36
4	38	100	72	98	300	66	400	360	160	351	105	34
5	37	83	70	79	230	70	400	232	190	351	99	33
6	35	74	150	64	170	74	330	195	170	282	71	237
7	81	77	225	60	130	75	290	171	145	237	63	208
8	210	93	185	64	110	183	249	151	130	205	62	91
9	99	342	140	66	95	230	210	162	120	178	62	65
10	71	197	140	66	92	130	200	179	110	159	60	56
11	59	127	130	62	88	107	180	179	100	268	129	47
12	61	105	120	60	85	200	170	224	120	195	78	45
13	70	97	110	58	82	300	160	215	250	152	59	40
14	50	89	100	56	82	230	150	167	300	205	53	39
15	73	86	92	54	74	200	160	150	220	168	49	80
16	67	75	85	52	76	185	180	150	600	164	48	70
17	64	75	80	51	75	360	250	180	800	127	43	80
18	59	77	76	50	74	640	350	150	400	110	43	300
19	53	87	73	70	72	450	470	220	280	94	40	280
20	51	84	71	150	71	350	500	250	220	94	34	190
21	56	85	68	230	70	300	410	350	200	120	32	150
22	67	84	66	170	70	260	450	400	600	91	51	130
23	75	84	64	250	69	230	600	500	450	77	88	300
24	125	73	63	280	68	210	400	300	360	70	45	200
25	99	66	61	200	66	210	300	200	310	64	36	160
26	76	139	60	170	65	240	225	160	260	70	32	120
27	66	185	60	140	64	270	201	140	230	89	33	100
28	60	113	56	120	64	240	242	130	250	122	226	95
29	119	96	56	105	------	220	336	210	300	154	103	74
30	102	92	58	95	------	230	293	230	1,500	103	60	66
31	77	------	62	85	------	240	------	190	------	75	57	------
TOTAL	2,238	3,120	2,856	3,427	2,889	6,728	9,735	6,995	9,565	7,470	2,123	3,399
MEAN	72.2	104	92.1	111	103	217	325	226	319	241	68.5	113
MAX	210	342	225	280	300	640	700	400	1,500	2,000	226	300
MIN	35	66	56	50	64	62	150	130	100	64	32	33
CFSM	1.34	1.93	1.71	2.06	1.91	4.03	6.04	4.20	5.93	4.48	1.27	2.10
IN.	1.55	2.16	1.97	2.37	2.00	4.65	6.73	4.84	6.61	5.17	1.47	2.35

CAL YR 1972 TOTAL 41,535 MEAN 113 MAX 1,210 MIN 30 CFSM 2.10 IN 28.72
WTR YR 1973 TOTAL 60,552 MEAN 166 MAX 2,000 MIN 32 CFSM 3.09 IN 41.87

PEAK DISCHARGE (BASE, 800 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0500	4.00	815				
*4-2	-	†4.39	1,000				
*6-16	-	-	*1,100				
6-30	-	‡9.45	4,450				

* About.
† From peak-stage indicator.
‡ From floodmarks in gage well.

NOTE.--No gage-height record Mar. 19 to Apr. 25, May 15 to July 2, Sept. 15-30.

01134500 Moose River at Victory, Vt.

LOCATION.--Lat 44°30'42", long 71°50'13", Essex County, on right bank at Victory, 2.7 mi (4.3 km) upstream from highway bridge.

DRAINAGE AREA.--75.2 mi² (121.0 km²).

PERIOD OF RECORD.--January 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,103.99 ft (336.496 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--26 years, 138 ft³/s (3.908 m³/s), 24.92 in/yr (633 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,340 ft³/s (123 m³/s) July 1 (gage height, 12.04 ft or 3.670 m); minimum, 13 ft³/s (0.37 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 4,340 ft³/s (123 m³/s) July 1, 1973 (gage height, 12.04 ft or 3.670 m); minimum, 3.6 ft³/s (0.10 m³/s) Aug. 20, 1970.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WSP 1381: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	56	86	110	90	70	605	307	467	3,250	25	37
2	34	50	81	200	110	66	838	247	332	1,100	34	50
3	22	107	75	170	250	63	733	277	218	525	62	37
4	18	132	69	130	450	66	472	421	174	306	143	30
5	15	95	67	105	330	100	400	322	211	225	129	26
6	14	80	71	86	250	130	337	231	191	176	69	104
7	16	76	313	75	210	90	258	195	155	135	44	280
8	115	78	206	80	180	130	232	163	129	108	39	101
9	85	333	192	76	160	330	204	168	105	87	31	63
10	50	435	144	72	120	370	188	230	90	71	26	51
11	34	219	116	67	110	290	176	203	73	116	194	42
12	30	143	86	64	105	300	153	249	86	97	188	35
13	39	122	94	60	100	560	141	281	214	69	73	30
14	35	110	103	57	98	665	132	232	354	126	52	28
15	38	101	85	55	96	499	143	180	198	136	44	58
16	45	86	80	52	94	374	196	213	268	101	40	75
17	40	66	78	51	91	430	389	223	1,130	73	33	52
18	45	71	77	50	88	950	707	167	666	54	28	134
19	35	62	76	60	85	953	833	199	282	46	36	520
20	28	77	70	200	82	600	887	256	174	39	29	266
21	25	107	66	300	80	380	679	309	137	49	23	130
22	27	76	66	220	80	270	663	717	245	43	21	104
23	31	61	66	280	82	220	1,030	667	271	32	84	366
24	112	57	64	350	80	204	814	367	193	26	49	323
25	107	58	63	290	76	196	500	236	273	23	30	188
26	72	70	63	230	74	237	344	192	232	22	23	134
27	54	217	62	180	72	312	256	162	145	25	21	105
28	44	156	60	150	70	284	276	163	217	100	217	90
29	68	121	58	130	------	278	433	320	214	65	201	77
30	97	92	54	110	------	293	461	308	1,520	48	76	68
31	72	------	58	96	------	423	------	256	------	33	48	------
TOTAL	1,531	3,514	2,909	4,156	3,713	10,133	13,480	6,461	8,964	7,306	2,112	3,604
MEAN	49.4	117	93.8	134	133	327	449	273	299	236	68.1	120
MAX	115	435	313	350	450	953	1,030	717	1,520	3,250	217	520
MIN	14	50	54	50	70	63	132	162	73	22	21	26
CFSM	.66	1.56	1.25	1.78	1.77	4.35	5.97	3.63	3.98	3.14	.91	1.60
IN.	.76	1.74	1.44	2.06	1.84	5.01	6.67	4.19	4.43	3.61	1.04	1.78

CAL YR 1972 TOTAL 54,964.4 MEAN 150 MAX 2,510 MIN 9.5 CFSM 1.99 IN 27.19
WTR YR 1973 TOTAL 69,883.0 MEAN 191 MAX 3,250 MIN 14 CFSM 2.54 IN 34.57

PEAK DISCHARGE (BASE, 1,000 ft³/s)

NOTE.--No gage-height record Jan. 9 to Feb. 9.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1800	8.38	1,410				
4-23	1200	7.83	1,120				
6-17	1100	8.40	1,420				
7-1	0100	12.04	4,340				

01134800 Kirby Brook at Concord, Vt.

LOCATION.--Lat 44°26'31", long 71°52'45", Essex County, on right bank 30 ft (9 m) downstream from culvert on U.S. Highway 2, 700 ft (200 m) upstream from mouth, and 1 mi (2 km) north of Concord.

DRAINAGE AREA.--8.05 mi² (20.85 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 11.3 ft³/s (0.320 m³/s), 19.06 in/yr (484 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,600 ft³/s (45.3 m³/s) June 30 (gage height, 6.35 ft or 1.935 m, from peak-stage indicator), from rating curve extended above 87 ft³/s (2.46 m³/s) on basis of measurement of peak flow through culvert; minimum, 0.52 ft³/s (0.015 m³/s) Oct. 5, 6, 7.

Period of record: Maximum discharge, 1,600 ft³/s (45.3 m³/s) June 30, 1973 (gage height, 6.35 ft or 1.935 m, from peak-stage indicator), from rating curve extended above 87 ft³/s (2.46 m³/s);on basis of measurement of peak flow through culvert; maximum gage height, 7.21 ft (2.198 m) Dec. 9, 1970 (backwater from ice); no flow Aug. 19, 1970.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.5	7.0	30	6.0	3.4	49	25	28	130	1.9	2.3
2	1.1	1.5	6.1	17	6.0	3.3	61	20	26	60	4.6	2.7
3	.84	4.0	5.6	14	50	3.2	43	23	17	35	4.3	2.3
4	.77	3.5	5.2	12	33	3.1	35	40	15	25	4.3	1.9
5	.58	2.3	5.0	10	25	3.4	42	25	26	19	4.4	1.8
6	.58	2.0	16	8.7	21	6.0	33	19	18	15	3.0	10
7	2.6	1.8	45	7.4	18	5.0	28	16	14	13	2.7	8.2
8	7.6	3.0	20	6.2	16	28	24	13	11	11	2.3	4.4
9	2.9	15	13	5.2	14	30	21	14	8.5	9.0	1.9	3.5
10	2.2	7.0	11	4.7	13	20	18	15	7.0	8.0	1.5	3.3
11	1.8	5.0	9.2	4.3	11	15	23	18	5.6	13	14	2.8
12	1.6	3.9	8.5	4.1	9.8	30	19	18	19	9.0	5.1	2.6
13	1.8	3.3	7.8	4.0	8.8	75	16	22	29	8.0	3.4	2.3
14	1.6	3.0	7.2	3.8	8.0	61	14	15	19	14	2.6	2.2
15	1.8	4.4	6.5	3.7	7.5	40	16	13	12	11	2.3	4.7
16	1.9	3.5	6.0	3.5	6.8	46	25	25	83	8.2	2.3	4.0
17	1.6	4.2	5.7	3.5	6.2	96	33	16	67	6.6	1.8	3.0
18	1.8	4.6	5.4	3.8	5.7	104	45	14	26	5.5	1.6	35
19	1.5	4.1	5.2	5.5	5.3	43	55	28	19	4.5	1.5	18
20	1.4	13	5.0	30	5.0	30	48	23	15	4.1	1.4	8.6
21	1.5	9.6	4.8	32	4.7	25	38	57	16	6.5	2.0	6.4
22	1.6	5.4	4.8	25	4.5	22	45	76	47	4.4	4.7	14
23	2.5	4.9	5.0	45	4.3	20	60	39	35	3.5	5.4	29
24	4.5	4.4	5.0	35	4.1	20	35	25	21	3.0	2.7	12
25	2.2	4.4	5.0	22	3.9	22	20	19	31	2.6	2.0	9.0
26	1.4	17	4.8	15	3.8	31	14	17	19	2.5	1.7	7.1
27	1.3	18	4.6	12	3.7	31	13	14	15	2.9	1.6	6.2
28	1.2	12	4.3	10	3.5	27	15	20	33	4.5	11	5.5
29	4.0	12	4.2	8.6	------	27	18	38	35	3.5	4.5	4.7
30	3.5	6.7	4.5	7.5	------	31	35	24	400	2.8	3.2	4.3
31	2.5	------	5.5	6.6	------	43	------	36	------	2.3	2.6	------
TOTAL	64.27	185.0	252.9	400.1	308.6	944.4	941	767	1,117.1	447.4	108.3	221.8
MEAN	2.07	6.17	8.16	12.9	11.0	30.5	31.4	24.7	37.2	14.4	3.49	7.39
MAX	7.6	18	45	45	50	104	61	76	400	130	14	35
MIN	.58	1.5	4.2	3.5	3.5	3.1	13	13	5.6	2.3	1.4	1.8
CFSM	.26	.77	1.01	1.60	1.37	3.79	3.90	3.07	4.62	1.79	.43	.92
IN.	.30	.85	1.17	1.85	1.43	4.36	4.35	3.54	5.16	2.07	.50	1.02

CAL YR 1972 TOTAL 4,388.98 MEAN 12.0 MAX 224 MIN .21 CFSM 1.49 IN 20.28
WTR YR 1973 TOTAL 5,757.87 MEAN 15.8 MAX 400 MIN .58 CFSM 1.96 IN 26.61

PEAK DISCHARGE (BASE, 150 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-16	2000	4.04	204				
6-30	-	[a]6.35	1,600				

[a] From peak-stage indicator.

NOTE.--No gage-height record Oct. 22 to Nov. 16, Apr. 5 to May 10, June 30 to July 18.

01135000 Moose River at St. Johnsbury, Vt.

LOCATION.--Lat 44°25'22", long 72°00'02", Caledonia County, on left bank at St. Johnsbury, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--128 mi^2 (332 km^2).

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 585 ft (178 m) from topographic map. Prior to Nov. 16, 1934, nonrecording gage at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--45 years, 218 ft^3/s (6.174 m^3/s), 23.13 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,620 ft^3/s (159 m^3/s) July 1 (gage height, 4.47 ft or 1.362 m, from peak-stage indicator), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, 6.19 ft (1.887 m) Jan. 23 (ice jam); minimum discharge, 16 ft^3/s (0.45 m^3/s) Oct. 1.

Period of record: Maximum discharge, 5,820 ft^3/s (165 m^3/s) May 5, 1972 (gage height, 4.23 ft or 1.289 m); maximum gage height, 8.3 ft (2.53 m) Apr. 30, 1929, from graph based on gage readings, site and datum then in use; minimum discharge, 6.2 ft^3/s (0.18 m^3/s) Sept. 17, 18, 1948, Aug. 27, 28, 1949.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 1231: 1929-30, 1931-34(M). WSP 1381: Drainage area. WSP 1701: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	75	125	150	130	100	1,000	414	825	4,500	57	62
2	50	67	105	280	160	100	1,400	381	746	2,500	71	76
3	33	109	98	240	400	100	1,200	558	434	1,000	106	67
4	26	179	84	190	700	100	750	678	315	634	161	52
5	22	135	95	150	500	100	660	441	377	475	217	44
6	19	112	120	130	390	100	560	337	364	372	131	71
7	29	106	450	115	330	110	430	278	287	280	84	404
8	112	112	354	110	270	300	390	243	235	228	67	180
9	126	616	266	105	229	500	340	308	194	189	60	100
10	73	707	229	100	190	660	300	336	164	161	50	78
11	49	364	179	95	160	500	280	349	139	232	285	66
12	42	210	122	90	150	792	250	402	200	210	338	56
13	43	173	130	84	145	1,240	230	412	377	153	140	49
14	48	157	142	80	140	1,010	220	350	604	295	90	44
15	43	146	125	77	135	836	240	298	339	295	72	60
16	54	124	115	74	130	779	350	318	1,160	203	62	113
17	49	82	110	72	125	1,200	650	382	2,160	161	54	80
18	52	97	110	70	120	1,700	1,200	284	1,510	124	46	178
19	48	86	105	80	120	1,600	1,400	312	547	103	43	678
20	39	129	96	350	115	1,000	1,400	419	304	92	47	445
21	34	179	94	470	110	600	1,200	527	252	108	38	200
22	34	112	93	350	110	420	1,100	1,030	547	97	42	166
23	37	75	92	450	110	360	1,700	1,310	536	75	97	475
24	96	78	91	550	105	330	1,300	853	360	62	90	498
25	137	91	90	450	105	330	800	461	500	55	53	275
26	97	152	88	350	105	380	550	345	430	52	40	203
27	71	351	86	270	105	500	450	286	250	55	35	161
28	58	277	84	220	105	460	485	263	400	126	224	135
29	67	207	80	170	------	450	733	517	400	131	343	114
30	122	141	76	150	------	480	641	662	2,000	90	133	97
31	100	------	84	130	------	650	------	477	------	67	85	------
TOTAL	1,844	5,449	4,118	6,202	5,494	17,787	22,209	14,231	16,956	13,125	3,361	5,227
MEAN	59.5	182	133	200	196	574	740	459	565	423	108	174
MAX	137	707	450	550	700	1,700	1,700	1,310	2,160	4,500	343	678
MIN	19	67	76	70	105	100	220	243	139	52	35	44
CFSM	.46	1.42	1.04	1.56	1.53	4.48	5.78	3.59	4.41	3.30	.84	1.36
IN.	.54	1.58	1.20	1.80	1.60	5.17	6.45	4.14	4.93	3.81	.98	1.52

CAL YR 1972 TOTAL 89,750 MEAN 245 MAX 4,750 MIN 12 CFSM 1.91 IN 26.08
WTR YR 1973 TOTAL 116,003 MEAN 318 MAX 4,500 MIN 19 CFSM 2.48 IN 33.71

PEAK DISCHARGE (BASE, 1,700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	-	-	*2,800				
4-23	-	-	*1,900				
6-18	0130	3.99	2,800				
7-1	-	†4.47	5,620				

* About.
† From peak-stage indicator.

NOTE.--No gage-height record Mar. 17 to Apr. 27, June 24 to July 3.

01135500 Passumpsic River at Passumpsic, Vt.

LOCATION.--Lat 44°21'56", long 72°02'23", Caledonia County, on right bank 0.7 mi (1.1 km) upstream from Water Andric, 1 mi (2 km) downstream from dam and village of Passumpsic, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--436 mi² (1,129 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (149 m) from topographic map.

AVERAGE DISCHARGE.--45 years, 719 ft³/s (20.36 m³/s), 22.39 in/yr (569 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,200 ft³/s (515 m³/s) July 1 (gage height, 23.49 ft or 7.160 m), from rating curve extended as explained below; minimum daily, 142 ft³/s (4.02 m³/s) Oct. 6.

Period of record: Maximum discharge, 18,200 ft³/s (515 m³/s) July 1, 1973 (gage height, 23.49 ft or 7.160 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of computation of flow over dam at gage height 21.23 ft (6.471 m); minimum daily, 13 ft³/s (0.37 m³/s) Sept. 12, 1948.

Maximum stage since at least 1780, about 31.5 ft (9.60 m) in November 1927, from information by local residents (discharge not determined).

REMARKS.--Records excellent except those for winter period, which are fair. Low flow regulated by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 871: Drainage area. WSP 1231: 1929, 1930-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	353	480	600	450	400	2,860	1,530	2,170	13,700	385	277
2	288	306	560	1,000	550	400	3,830	1,290	1,700	5,510	419	312
3	235	472	480	700	1,100	400	3,170	1,310	1,220	3,120	561	289
4	181	613	430	550	2,100	420	2,380	2,100	1,010	2,220	678	271
5	152	482	390	520	1,600	460	2,430	1,570	1,270	2,470	747	241
6	142	450	430	440	1,200	500	2,040	1,250	1,140	1,710	549	754
7	164	445	1,460	320	1,000	490	1,690	1,090	960	1,320	428	1,370
8	1,020	442	1,240	340	880	750	1,540	952	833	1,110	356	616
9	520	2,120	1,050	360	750	1,400	1,320	969	709	779	349	434
10	392	1,600	851	370	620	1,200	1,260	1,280	644	815	283	376
11	289	944	749	370	600	1,000	1,150	1,160	575	1,210	751	338
12	256	699	740	370	570	1,600	1,070	1,360	556	955	741	284
13	287	601	730	330	570	2,600	997	1,460	1,500	797	480	256
14	272	561	660	320	560	3,500	964	1,200	1,850	1,400	371	255
15	250	521	560	330	560	2,600	1,080	989	1,180	1,130	310	390
16	340	462	520	310	550	2,100	1,320	1,220	2,270	875	293	512
17	331	330	470	290	480	3,000	2,210	1,190	5,060	725	281	390
18	239	350	430	280	470	5,690	3,030	936	2,580	633	285	1,060
19	276	379	440	400	480	3,550	3,190	1,100	1,490	575	245	2,130
20	243	492	440	900	480	2,270	3,150	1,240	1,090	527	288	1,040
21	178	651	440	1,300	460	1,570	2,550	2,070	927	618	266	669
22	177	390	440	1,000	470	1,390	2,890	3,840	3,950	552	218	578
23	250	330	420	1,400	460	1,220	3,600	2,830	2,710	471	450	1,830
24	484	402	400	1,700	450	1,170	2,730	1,770	1,630	382	366	1,210
25	527	379	380	1,400	420	1,190	1,940	1,290	1,540	378	278	984
26	437	558	360	1,100	420	1,500	1,520	1,100	1,420	370	197	682
27	312	1,300	350	900	410	1,770	1,280	978	1,080	408	244	573
28	267	877	330	750	400	1,490	1,520	986	1,230	706	945	511
29	393	733	320	650	------	1,490	2,090	1,790	1,400	630	842	453
30	605	514	310	550	------	1,570	1,980	1,630	9,590	570	459	439
31	433	------	350	500	------	2,120	------	1,390	------	424	362	------
TOTAL	10,241	18,756	17,140	20,350	19,070	50,910	62,781	44,870	55,384	47,090	13,427	19,384
MEAN	330	625	553	656	681	1,642	2,093	1,447	1,846	1,519	433	646
MAX	1,020	2,120	1,460	1,700	2,100	5,690	3,830	3,840	9,590	13,700	945	2,130
MIN	142	306	310	280	400	400	964	936	575	370	197	241
CFSM	.76	1.43	1.27	1.50	1.56	3.77	4.80	3.32	4.23	3.48	.99	1.48
IN.	.87	1.60	1.46	1.74	1.63	4.34	5.36	3.83	4.73	4.02	1.15	1.55

CAL YR 1972 TOTAL 288,292 MEAN 788 MAX 10,700 MIN 33 CFSM 1.81 IN 24.60
WTR YR 1973 TOTAL 379,403 MEAN 1,039 MAX 13,700 MIN 142 CFSM 2.38 IN 32.37

PEAK DISCHARGE (BASE, 5,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0745	10.84	6,460				
6-17	0545	10.40	6,060				
6-22	1245	10.40	6,060				
7-1	0115	23.49	18,200				

01137500 Ammonoosuc River at Bethlehem Junction, N.H.

LOCATION.--Lat 44°16'08", long 71°37'52", Grafton County, on left bank 0.2 mi (0.3 km) upstream from Pierce Bridge and Bethlehem Junction, 0.8 mi (1.3 km) upstream from unnamed tributary entering from left, 3 mi (5 km) east of Bethlehem, 3.4 mi (5.5 km) downstream from Little River, and at mile 35.0 (kilometre 56.3).

DRAINAGE AREA.--87.6 mi² (226.9 km²).

PERIOD OF RECORD.--August 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,180.74 ft (359.890 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--34 years, 205 ft³/s (5.806 m³/s), 31.78 in/yr (807 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft³/s (300 m³/s) June 30 (gage height, 11.96 ft or 3.645 m), from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement at gage height 12.09 ft (3.685 m); minimum, 33 ft³/s (0.93 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 10,800 ft³/s (306 m³/s) Oct. 24, 1959 (gage height, 12.09 ft or 3.685 m), from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of peak flow; minimum, 16 ft³/s (0.45 m³/s) Nov. 14, 1952 (caused by anchor ice upstream).

REMARKS.--Records excellent except those for winter period, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1951(M), 1953-54(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMHER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	93	137	250	100	72	312	475	368	2,100	66	42
2	50	88	105	256	200	71	783	472	369	738	111	39
3	42	186	120	144	800	70	444	655	286	483	197	38
4	38	235	98	125	450	75	327	848	246	363	117	38
5	36	143	101	130	340	100	342	502	257	336	90	37
6	34	114	653	90	239	85	258	437	234	280	74	64
7	54	102	1,060	66	238	90	229	436	208	231	68	116
8	296	99	334	80	221	400	219	348	182	198	62	61
9	150	228	290	85	180	489	199	383	161	173	60	50
10	98	204	235	82	132	266	191	566	145	155	58	47
11	82	146	176	75	125	224	187	569	130	144	71	44
12	83	125	135	73	110	767	164	592	186	133	65	44
13	107	120	194	71	120	754	156	503	382	122	58	41
14	91	120	171	70	130	426	150	376	428	432	55	39
15	105	112	117	69	130	303	167	306	237	282	53	43
16	95	92	115	68	120	358	245	460	681	192	53	44
17	92	74	105	66	103	746	551	442	1,220	147	50	41
18	95	93	100	70	100	1,420	648	348	459	128	47	65
19	81	81	135	100	97	550	740	519	311	117	47	121
20	72	173	120	350	92	361	648	457	247	106	44	71
21	66	173	105	300	88	281	543	917	214	109	42	63
22	66	96	100	260	84	248	1,380	1,250	272	99	42	60
23	70	79	95	300	82	222	1,480	921	222	89	47	155
24	85	86	90	600	80	210	794	570	180	83	42	93
25	83	87	85	400	78	206	569	438	172	79	39	74
26	76	373	83	250	76	253	468	363	148	76	38	65
27	68	517	80	200	74	270	386	312	130	85	39	60
28	64	234	75	170	73	219	615	304	192	127	112	56
29	82	183	67	150	------	209	1,040	434	323	85	73	53
30	192	134	75	130	------	213	691	358	5,280	75	51	51
31	117	------	77	110	------	254	------	353	------	68	45	------
TOTAL	2,742	4,590	5,433	5,190	4,662	10,212	14,926	15,914	13,870	7,835	2,016	1,815
MEAN	88.5	153	175	167	167	329	498	513	462	253	65.0	60.5
MAX	296	517	1,060	600	800	1,420	1,480	1,250	5,280	2,100	197	155
MIN	34	74	67	66	73	70	150	304	130	68	38	37
CFSM	1.01	1.75	2.00	1.91	1.91	3.76	5.68	5.86	5.27	2.89	.74	.69
IN.	1.16	1.95	2.31	2.20	1.98	4.34	6.34	6.76	5.89	3.33	.86	.77

CAL YR 1972 TOTAL 70,513 MEAN 193 MAX 2,000 MIN 29 CFSM 2.20 IN 29.94
WTR YR 1973 TOTAL 89,205 MEAN 244 MAX 5,280 MIN 34 CFSM 2.79 IN 37.88

PEAK DISCHARGE (BASE, 2,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-30	1400	11.96	10,600				

01138000 Ammonoosuc River near Bath, N.H.

LOCATION.--Lat 44°09'14", long 71°59'10", Grafton County, on left bank 0.4 mi (0.6 km) downstream from Wild Ammonoosuc River and 1.4 mi (2.3 km) southwest of Bath, and 3.3 mi (5.3 km) upstream from mouth.

DRAINAGE AREA.--395 mi² (1,023 km²).

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 454.14 ft (138.422 m) above mean sea level (levels by Connecticut River Power Co.).

AVERAGE DISCHARGE.--38 years, 646 ft³/s (18.29 m³/s), 22.21 in/yr (564 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,900 ft³/s (762 m³/s) June 30 (gage height, 17.55 ft or 5.349 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 106 ft³/s (3.00 m³/s) Oct. 6.
Period of record: Maximum discharge, 27,900 ft³/s (790 m³/s) Mar. 18, 1936 (gage height, 15.40 ft or 4.694 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurement at gage height 14.28 ft (4.353 m); maximum gage height, 17.55 ft (5.349 m) June 30, 1973; minimum daily discharge, 35 ft³/s (0.99 m³/s) Sept. 15, 1957.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by small powerplants above station; greater fluctuation prior to 1968.

REVISIONS.--WSP 871: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	311	491	1,100	450	320	1,000	1,220	1,190	9,580	250	149
2	170	275	412	1,200	600	320	2,120	1,090	1,170	3,770	400	149
3	137	411	380	650	3,500	313	1,820	1,410	965	2,280	700	135
4	123	588	350	540	2,500	322	1,370	2,370	836	1,690	450	126
5	114	445	350	570	1,640	405	1,540	1,450	1,540	1,410	330	126
6	106	358	700	420	1,010	505	1,300	1,140	1,030	1,200	280	235
7	186	322	4,000	300	925	469	1,130	1,030	822	966	260	618
8	761	313	1,500	340	894	1,160	1,040	887	719	790	240	344
9	528	772	1,200	390	744	2,250	924	958	605	645	230	228
10	300	783	1,000	350	620	1,370	872	1,480	542	555	220	184
11	250	541	800	330	550	1,050	859	1,230	483	508	270	165
12	250	441	620	325	500	2,390	756	1,480	651	447	240	151
13	320	397	850	320	550	3,250	685	1,180	1,000	418	220	140
14	270	381	760	315	580	2,040	644	961	1,320	999	200	135
15	310	375	530	310	540	1,440	729	812	837	1,270	185	135
16	280	330	490	305	485	1,480	912	1,230	1,530	780	170	142
17	280	237	450	300	413	2,440	1,430	1,360	4,290	596	151	140
18	270	277	430	300	360	5,270	1,690	953	1,730	497	142	167
19	240	272	560	330	408	2,350	1,640	1,140	1,160	451	146	424
20	210	496	580	1,500	413	1,510	1,590	1,210	916	414	137	327
21	200	708	470	1,400	410	1,160	1,160	2,350	766	451	126	245
22	200	397	440	1,100	400	1,010	2,200	5,100	954	421	120	230
23	210	289	420	2,100	380	889	3,000	3,290	877	359	126	489
24	250	319	390	2,700	370	849	1,910	1,900	706	324	134	444
25	240	335	370	1,600	350	843	1,290	1,410	730	301	118	330
26	220	1,020	350	1,200	335	1,060	1,090	1,180	587	285	109	271
27	207	2,510	330	900	330	1,230	944	1,010	496	310	109	233
28	193	1,010	310	800	330	951	1,180	963	934	450	194	201
29	225	804	300	640	------	874	2,230	1,340	1,260	360	301	176
30	496	579	310	530	------	833	1,850	1,190	15,000	290	180	163
31	417	------	340	480	------	869	------	1,060	------	260	178	------
TOTAL	8,097	16,296	20,483	23,645	20,587	41,222	40,905	45,384	45,646	33,077	6,916	7,002
MEAN	261	543	661	763	735	1,330	1,364	1,464	1,522	1,067	223	233
MAX	761	2,510	4,000	2,700	3,500	5,270	3,000	5,100	15,000	9,580	700	618
MIN	106	237	300	300	330	313	644	812	483	260	109	126
CFSM	.66	1.37	1.67	1.93	1.86	3.37	3.45	3.71	3.85	2.70	.56	.59
IN.	.76	1.53	1.93	2.23	1.94	3.88	3.85	4.27	4.30	3.12	.65	.66

CAL YR 1972 TOTAL 245,907 MEAN 672 MAX 7,830 MIN 83 CFSM 1.70 IN 23.16
WTR YR 1973 TOTAL 309,260 MEAN 847 MAX 15,000 MIN 106 CFSM 2.14 IN 29.13

PEAK DISCHARGE (BASE, 6,500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0615	8.50	7,040				
6-30	1915	17.55	26,900				

01138500 Connecticut River at Wells River, Vt.

LOCATION.--Lat 44°09'13", long 72°02'34", Orange County, on right bank at village of Wells River, 200 ft (61 m) downstream from bridge on U.S. Highway 302, 400 ft (100 m) upstream from Wells River, 1,200 ft (350 m) downstream from Ammonoosuc River, and at mile 266.0 (kilometre 428.0).

DRAINAGE AREA.--2,644 mi² (6,848 km²).

PERIOD OF RECORD.--October 1949 to current year. October and November 1949 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 399.75 ft (121.844 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 4,712 ft³/s (133.4 m³/s), 24.20 in/yr (615 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 57,100 ft³/s (1,620 m³/s) July 1 (gage height, 17.35 ft or 5.288 m, from peak-stage indicator); minimum daily, 444 ft³/s (12.6 m³/s) Oct. 7.

Period of record: Maximum discharge, 57,100 ft³/s (1,620 m³/s) July 1, 1973 (gage height, 17.35 ft or 5.288 m, from peak-stage indicator); minimum daily, 152 ft³/s (4.30 m³/s) Aug. 28, 1960.

REMARKS.--Records good. Flow regulated by powerplants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 215), and other reservoirs (combined usable capacity, about 14,800,000,000 ft³ or 419,000,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	2,880	4,950	2,640	6,830	5,460	5,620	12,100	11,000	49,000	3,660	2,480
2	1,190	2,870	3,720	6,070	7,520	3,680	13,300	10,100	11,200	35,000	2,780	788
3	1,090	3,790	1,460	6,420	10,500	2,700	17,200	8,770	5,380	24,900	3,590	811
4	903	2,600	3,340	6,670	9,440	1,240	14,400	10,700	5,880	15,600	2,640	3,900
5	1,030	1,940	4,230	6,690	10,600	3,460	13,100	9,750	8,670	13,000	1,850	4,530
6	765	3,300	3,880	4,000	10,200	4,450	12,900	6,400	7,890	12,600	2,430	2,480
7	444	2,690	8,430	2,700	8,730	5,360	10,500	6,290	7,510	11,500	2,760	3,800
8	1,570	3,150	6,100	4,000	7,450	6,270	8,280	6,450	7,120	7,570	2,990	1,980
9	1,930	5,850	5,690	4,900	7,000	8,210	7,790	6,750	5,600	6,300	3,390	1,130
10	2,350	7,570	5,020	4,900	6,390	8,220	7,380	7,480	2,140	7,050	3,910	2,090
11	2,570	6,270	4,970	4,900	4,060	7,470	7,010	6,550	4,130	6,790	2,890	2,080
12	2,020	3,060	4,550	4,400	5,820	10,600	6,030	8,080	6,700	5,720	2,170	2,850
13	2,140	4,590	5,640	2,900	7,140	15,800	5,550	6,260	6,170	4,890	2,850	1,800
14	890	5,120	2,940	1,400	6,880	16,500	4,190	6,650	6,920	4,460	2,520	1,980
15	623	3,000	5,280	4,420	7,000	15,300	3,980	6,780	7,060	4,070	2,390	1,590
16	1,640	3,260	2,960	4,900	6,980	13,900	5,960	7,310	7,470	4,640	1,900	1,020
17	2,010	3,990	2,250	4,220	6,380	15,400	9,490	7,400	19,600	4,340	1,970	2,970
18	1,810	1,800	3,880	3,860	3,920	24,900	12,400	7,390	15,600	4,530	869	4,430
19	2,640	1,600	3,810	3,560	5,110	20,600	12,700	7,700	12,400	3,500	1,180	5,580
20	1,570	3,090	5,160	4,150	5,500	17,700	12,400	7,470	11,300	5,160	2,880	6,090
21	880	1,800	4,780	4,250	6,390	13,400	11,900	10,100	7,740	3,190	2,040	6,670
22	672	3,200	5,160	6,490	6,360	12,400	12,900	18,800	9,460	1,620	2,310	4,750
23	781	1,900	2,110	13,700	5,880	11,500	15,900	17,400	11,600	2,470	2,590	4,160
24	1,870	2,860	2,710	15,200	3,480	12,000	16,800	14,100	6,090	2,450	2,470	5,780
25	2,830	1,410	2,530	13,400	1,220	10,800	14,400	12,400	5,490	2,170	1,360	6,740
26	2,090	2,170	3,610	12,500	4,690	12,400	11,100	9,850	6,600	3,600	750	6,520
27	2,060	5,460	4,200	10,000	6,490	10,400	10,300	5,670	6,750	2,700	1,910	4,570
28	1,120	5,910	4,130	6,230	5,820	9,060	9,330	4,850	7,350	2,970	2,930	4,650
29	974	5,900	3,440	5,540	------	7,310	6,810	7,380	7,880	1,820	4,300	3,630
30	3,630	6,260	2,570	6,840	------	7,540	10,300	11,000	30,700	3,500	3,380	1,700
31	4,060	------	1,980	6,050	------	5,640	------	9,690	------	3,860	4,030	------
TOTAL	50,601	109,290	125,480	187,900	183,780	319,670	309,920	277,620	269,400	260,970	79,689	103,549
MEAN	1,632	3,643	4,048	6,061	6,564	10,310	10,330	8,955	8,980	8,418	2,571	3,452
MAX	4,060	7,570	8,430	15,200	10,600	24,900	17,200	18,800	30,700	49,000	4,300	6,740
MIN	444	1,410	1,460	1,400	1,220	1,240	3,980	4,850	2,140	1,620	750	788
MEAN†	1,939	3,842	3,559	5,314	4,760	10,140	12,550	9,819	9,342	8,190	2,352	3,233
CFSM†	.73	1.45	1.35	2.01	1.80	3.84	4.75	3.71	3.53	3.10	.89	1.22
IN†	.85	1.62	1.55	2.32	1.88	4.42	5.30	4.28	3.94	3.57	1.03	1.36

CAL YR 1972 TOTAL 1,777,832 MEAN 4,857 MAX 41,900 MIN 280 MEAN† 4,931 CFSM† 1.86 IN† 25.39
WTR YR 1973 TOTAL 2,277,869 MEAN 6,241 MAX 49,000 MIN 444 MEAN† 6,255 CFSM† 2.37 IN† 32.12

PEAK DISCHARGE (BASE, 23,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1000	9.55	26,900				
7-1	-	17.35	57,100				

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes, Lake Francis, and Moore and Comerford Reservoirs.

01139000 Wells River at Wells River, Vt.

LOCATION.--Lat 44°09'03", long 72°03'55", Orange County, on right bank 800 ft (250 m) upstream from railroad bridge, 0.8 mi (1.3 km) west of village of Wells River, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--98.4 mi² (254.9 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 505.53 ft (154.086 m) above mean sea level (levels by Connecticut River Power Co.).

AVERAGE DISCHARGE.--33 years, 137 ft³/s (3.880 m³/s), 18.91 in/yr (480 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,970 ft³/s (169 m³/s) June 30 (gage height, 9.82 ft or 2.993 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s) on basis of computation of peak flow over dam; minimum, 22 ft³/s (0.62 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 5,970 ft³/s (169 m³/s) June 30, 1973 (gage height, 9.82 ft or 2.993 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s) on basis of computation of peak flow over dam; minimum, 5.1 ft³/s (0.14 m³/s) Oct. 6, 1948; minimum daily, 8.3 ft³/s (0.24 m³/s) Sept. 5, 1953.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation at low flow prior to 1958 caused by small powerplant above station. Flow partly regulated by Groton and Ricker Ponds.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1201: 1942(P), 1944-45(M), 1946-47(P), 1948(M), 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	61	140	216	140	81	543	357	348	2,960	91	53
2	31	58	125	243	170	80	1,030	310	349	1,120	143	59
3	27	94	126	180	500	80	915	324	282	639	144	47
4	25	92	100	149	474	105	671	409	273	457	119	44
5	23	78	101	140	343	175	720	332	775	383	128	41
6	23	75	125	123	292	132	578	289	457	323	98	71
7	52	79	288	100	246	119	479	253	374	274	93	122
8	187	85	227	100	197	234	433	223	305	240	85	67
9	81	541	206	105	180	385	378	253	249	206	78	55
10	66	362	161	105	160	293	353	288	209	184	73	50
11	55	215	139	105	150	234	344	379	179	203	88	44
12	48	156	138	110	135	471	307	407	454	179	90	41
13	48	127	155	100	140	665	283	323	421	160	72	38
14	44	116	133	105	145	488	272	272	535	338	66	37
15	47	110	125	96	130	363	290	238	373	293	63	50
16	49	97	110	92	115	386	360	321	516	199	60	52
17	44	78	105	90	100	634	485	281	929	155	56	44
18	41	86	100	120	110	1,430	545	240	470	139	53	76
19	39	78	110	200	105	763	516	276	354	122	50	124
20	36	134	105	400	100	485	464	267	290	114	47	73
21	34	163	100	360	100	380	399	601	255	144	44	68
22	35	105	104	300	96	328	447	1,080	451	115	44	72
23	41	88	108	560	94	293	475	615	305	98	73	190
24	69	89	104	400	92	282	382	421	243	90	54	107
25	57	86	104	300	90	296	323	342	209	84	46	89
26	51	156	103	250	87	436	281	297	200	84	43	74
27	47	347	103	210	85	484	265	258	181	91	43	66
28	44	229	103	190	83	387	378	282	200	239	65	59
29	64	197	95	170	------	363	546	372	389	141	69	53
30	98	149	100	160	------	365	444	320	2,890	124	53	48
31	73	------	110	150	------	440	------	324	------	102	47	------
TOTAL	1,621	4,331	3,953	5,929	4,659	11,657	13,906	10,954	13,465	10,000	2,278	2,014
MEAN	52.3	144	128	191	166	376	464	353	449	323	73.5	67.1
MAX	187	541	288	560	500	1,430	1,030	1,080	2,890	2,960	144	190
MIN	23	58	95	90	83	80	265	223	179	84	43	37
CFSM	.53	1.46	1.30	1.94	1.69	3.82	4.72	3.59	4.56	3.28	.75	.68
IN.	.61	1.64	1.49	2.24	1.76	4.41	5.26	4.14	5.09	3.78	.86	.76

CAL YR 1972 TOTAL 57,657 MEAN 158 MAX 2,060 MIN 19 CFSM 1.61 IN 21.80
WTR YR 1973 TOTAL 84,767 MEAN 232 MAX 2,960 MIN 23 CFSM 2.36 IN 32.05

PEAK DISCHARGE (BASE, 980 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0630	5.51	1,690	6-5	0700	4.55	1,050
4-2	2000	4.78	1,200	6-17	0300	4.83	1,230
5-22	0900	4.92	1,290	6-30	1700	9.82	5,970

01139800 East Orange Branch at East Orange, Vt.

LOCATION.--Lat 44°05'34", long 72°20'10", Orange County, on left bank 0.3 mi (0.5 km) east of East Orange, 1.6 mi (2.6 km) upstream from mouth, and 5 mi (8 km) southwest of Orange.

DRAINAGE AREA.--8.95 mi² (23.18 km²).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,180 ft (360 m) from topographic map.

AVERAGE DISCHARGE.--15 years, 14.0 ft³/s (0.396 m³/s), 21.24 in/yr (539 mm/yr).

EXTREMES.--Current year: Maximum discharge, 672 ft³/s (19.0 m³/s) June 30 (gage height, 5.55 ft or 1.692 m), from rating curve extended as explained below; minimum, 1.5 ft³/s (0.042 m³/s) Sept. 13, 14.
Period of record: Maximum discharge, 672 ft³/s (19.0 m³/s) June 30, 1973 (gage height, 5.55 ft or 1.692 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 6.35 ft (1.935 m) Jan. 22, 1959 (ice jam); minimum discharge, 0.1 ft³/s (0.003 m³/s) Sept. 9, 19, 1963.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by mill upstream.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1972: 1960-64(P), 1969-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.4	14	22	12	7.8	80	53	39	120	9.2	2.4
2	2.3	7.8	12	17	50	7.6	104	49	46	106	28	2.4
3	2.1	9.6	10	15	40	9.9	76	59	35	98	14	2.1
4	1.9	7.4	9.0	14	35	12	75	53	40	92	10	2.1
5	1.8	5.0	11	13	30	15	75	46	41	85	11	1.8
6	1.8	5.2	25	11	29	13	65	45	34	62	7.3	4.5
7	32	5.5	20	10	23	11	64	41	33	54	7.3	4.2
8	16	9.1	18	9.6	19	26	59	39	27	46	6.3	2.7
9	5.4	58	15	9.4	17	21	55	53	26	41	5.6	2.4
10	3.8	17	13	9.0	16	17	54	45	25	36	5.4	2.2
11	3.2	12	12	9.0	14	17	50	88	26	33	6.1	2.1
12	3.5	10	14	8.6	12	53	48	49	45	30	5.9	1.9
13	4.7	9.6	13	8.2	13	37	45	44	38	29	4.7	1.6
14	4.1	9.1	11	8.2	13	24	48	42	29	70	4.4	1.8
15	8.2	7.8	11	8.1	12	21	50	41	23	49	4.4	4.2
16	5.4	7.3	10	8.1	11	33	64	55	53	38	4.4	2.8
17	4.1	7.0	9.8	8.0	9.6	94	77	41	39	31	3.6	2.2
18	3.5	6.8	9.6	10	10	77	71	40	28	27	3.5	7.7
19	2.9	9.2	9.4	15	10	51	75	41	26	23	3.5	6.1
20	2.9	15	9.2	40	9.8	48	70	39	24	24	3.1	3.6
21	3.8	10	9.1	28	9.3	48	74	90	42	30	2.8	3.6
22	2.7	8.0	9.0	25	9.1	46	91	68	38	18	4.7	6.3
23	6.2	7.5	9.0	60	8.9	46	79	47	27	14	5.9	8.8
24	6.6	7.2	9.2	36	8.8	45	71	44	25	12	3.6	4.5
25	4.7	7.1	9.4	30	8.7	50	65	43	25	10	3.0	3.5
26	3.8	50	9.4	22	8.4	68	59	42	22	10	2.7	3.0
27	3.2	23	9.0	19	8.2	54	60	40	21	16	2.7	2.7
28	3.5	17	8.8	17	8.0	49	104	50	22	30	8.8	2.5
29	14	16	8.6	15	------	47	76	48	93	16	3.8	2.2
30	9.6	15	10	14	------	53	57	40	242	12	2.8	2.1
31	5.1	------	20	13	------	61	------	47	------	9.5	2.7	------
TOTAL	176.9	383.6	367.5	532.2	454.8	1,162.3	2,041	1,522	1,234	1,271.5	191.2	100.0
MEAN	5.71	12.8	11.9	17.2	16.2	37.5	68.0	49.1	41.1	41.0	6.17	3.33
MAX	32	58	25	60	50	94	104	90	242	120	28	8.8
MIN	1.8	4.4	8.6	8.0	8.0	7.6	45	39	21	9.5	2.7	1.6
CFSM	.64	1.43	1.33	1.92	1.81	4.19	7.60	5.49	4.59	4.58	.69	.37
IN.	.74	1.59	1.53	2.21	1.89	4.83	8.48	6.33	5.13	5.28	.79	.42

CAL YR 1972 TOTAL 5,866.3 MEAN 16.0 MAX 240 MIN 1.2 CFSM 1.79 IN 24.38
WTR YR 1973 TOTAL 9,437.0 MEAN 25.9 MAX 242 MIN 1.6 CFSM 2.89 IN 39.22

PEAK DISCHARGE (BASE, 140 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	-	-	†150	5-11	0145	3.20	165
3-17	1830	3.47	211	5-21	0600	3.03	140
4-1	2030	3.08	147	6-30	1115	5.55	672
4-28	2130	3.91	292				

† About.

01141500 Ompompanoosuc River at Union Village, Vt.

LOCATION.--Lat 43°47'23", long 72°15'19", Orange County, on right bank 100 ft (30 m) upstream from covered bridge at Union Village, 0.2 mi (0.3 km) downstream from Avery Brook, 0.3 mi (0.5 km) downstream from Union Village Reservoir, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--130 mi² (337 km²).

PERIOD OF RECORD.--September 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (133 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 192 ft³/s (5.437 m³/s), 20.06 in/yr (510 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,810 ft³/s (51.3 m³/s) June 30 (gage height, 7.36 ft or 2.243 m); minimum, 18 ft³/s (0.51 m³/s) Sept. 30; minimum daily, 19 ft³/s (0.54 m³/s) Sept. 30.

Period of record: Maximum discharge, 4,800 ft³/s (136 m³/s) June 3, 1947 (gage height, 9.65 ft or 2.941 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.7 ft³/s (0.048 m³/s) Oct. 14, 1949; minimum daily, 2.0 ft³/s (0.057 m³/s) Oct. 20, 1949. Maximum discharge since construction of Union Village Reservoir in 1949, 2,350 ft³/s (66.6 m³/s) Apr. 20, 1950 (gage height, 7.62 ft or 2.323 m); maximum gage height, 7.67 ft (2.338 m) Mar. 22, 1968.

Maximum stage since at least 1869, about 14.5 ft (4.420 m) in November 1927, from information by local resident (discharge not determined).

REMARKS.--Records good except those for winter period and period July 12 to Sept. 30, which are fair. Flow regulated by Union Village Reservoir (see p. 215) since October 1949. Some regulation by Lake Fairlee.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	91	295	206	240	143	745	389	334	198	58	43
2	40	112	274	335	270	139	1.210	349	326	520	107	47
3	38	193	241	334	441	138	1.180	373	271	1.120	114	37
4	37	161	211	226	602	137	908	430	255	1.440	80	29
5	35	145	232	204	695	148	994	338	259	1.490	65	27
6	34	145	259	200	650	165	846	312	235	1.510	57	30
7	100	159	445	170	517	164	756	278	219	1.450	56	37
8	214	307	393	150	376	212	654	256	197	1.340	52	32
9	102	840	379	145	270	329	551	352	180	1.140	49	29
10	80	453	351	145	210	303	520	356	161	1.020	46	27
11	71	307	285	140	215	276	497	801	143	498	110	46
12	67	254	202	140	225	419	440	601	247	204	85	41
13	70	227	231	140	224	777	406	521	319	184	62	35
14	65	209	260	140	225	836	406	414	271	269	54	30
15	75	209	240	135	223	531	451	367	206	224	51	33
16	70	204	217	165	220	624	492	569	257	196	51	36
17	64	137	210	175	205	985	540	422	418	173	47	31
18	61	110	210	170	185	1.200	522	363	249	154	44	46
19	57	161	192	165	170	1.380	491	376	220	148	41	78
20	54	342	214	480	199	1.520	437	349	203	133	39	45
21	51	380	217	595	200	993	393	1.000	160	130	37	35
22	53	239	212	434	193	548	406	1.160	236	120	36	33
23	58	191	208	696	172	474	387	709	214	108	39	60
24	70	191	193	536	165	476	328	541	191	95	39	49
25	64	204	187	521	150	506	298	449	178	86	36	39
26	59	380	189	585	145	834	279	399	169	80	33	31
27	56	557	190	473	145	1.060	284	355	144	102	33	28
28	57	407	188	350	140	676	495	425	161	104	41	27
29	100	352	164	310	------	608	831	507	630	82	47	23
30	147	317	173	235	------	577	474	388	982	71	38	19
31	101	------	182	240	------	642	------	367	------	63	38	------
TOTAL	2,196	7,984	7,444	8,940	7,672	17,820	17,221	14,516	8,035	14,452	1,685	1,103
MEAN	70.8	266	240	288	274	575	574	468	268	466	54.4	36.8
MAX	214	840	445	696	695	1.520	1.210	1.160	982	1.510	114	78
MIN	34	91	164	135	140	137	279	256	143	63	33	19
MEAN†	70.9	272	240	290	272	572	574	468	389	348	54.4	36.8
CFSM†	.55	2.09	1.85	2.23	2.09	4.40	4.42	3.60	2.99	2.68	.42	.28
IN†	.63	2.34	2.13	2.58	2.18	5.07	4.93	4.15	3.34	3.08	.48	.32

CAL YR 1972 TOTAL 94,217 MEAN 257 MAX 1,530 MIN 34 MEAN† 257 CFSM† 1.98 IN† 26.96
WTR YR 1973 TOTAL 109,068 MEAN 299 MAX 1,520 MIN 19 MEAN† 299 CFSM† 2.30 IN† 31.21

† Adjusted for change in contents in Union Village Reservoir.

01141800 Mink Brook near Etna, N.H.

LOCATION.--Lat 43°42'08", long 72°11'15", Grafton County, on left bank 2 mi (3 km) northeast of Etna and 5 mi (8 km) east of Hanover.

DRAINAGE AREA.--4.60 mi² (11.91 km²).

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (300 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 6.21 ft³/s (0.176 m³/s), 18.33 in/yr (466 mm/yr).

EXTREMES.--Current year: Maximum discharge, 535 ft³/s (15.2 m³/s) June 30 (gage height, 3.75 ft or 1.143 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.30 ft³/s (0.008 m³/s) Aug. 25-28, Sept. 11-14.
Period of record: Maximum discharge, 535 ft³/s (15.2 m³/s) June 30, 1973 (gage height, 3.75 ft or 1.143 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 4.19 ft (1.277 m) Mar. 26, 1963 (backwater from ice); minimum discharge, 0.01 ft³/s (0.001 m³/s) Aug. 11, 1964.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	4.0	13	20	7.0	4.0	27	11	14	47	1.1	2.2
2	1.1	8.5	11	14	10	4.0	48	9.4	14	24	5.4	1.3
3	1.0	13	11	10	40	4.0	35	14	11	17	4.4	.96
4	1.0	7.6	10	9.0	27	4.0	30	14	10	55	2.4	.66
5	1.0	6.4	9.7	7.5	22	5.0	29	11	10	41	1.8	.66
6	1.0	7.2	21	6.0	17	5.6	26	10	9.4	22	1.2	.75
7	15	7.6	36	5.0	13	5.2	25	8.3	8.3	15	1.2	.96
8	12	9.4	29	4.0	11	17	21	7.7	6.8	11	.96	.75
9	4.0	27	20	3.7	9.1	23	17	14	6.1	8.3	.96	.66
10	2.6	17	16	3.5	8.2	17	16	12	5.4	7.1	.96	.49
11	2.2	12	15	3.3	7.2	16	15	29	4.4	6.8	3.2	.42
12	2.1	12	12	3.2	6.4	36	15	21	12	6.1	1.8	.30
13	2.8	10	11	3.1	5.8	42	12	17	10	5.1	1.3	.30
14	2.2	9.4	10	3.1	6.4	30	14	14	7.7	8.8	.96	.30
15	3.2	9.9	9.8	3.0	7.0	23	18	12	5.7	7.1	.96	.96
16	2.6	9.1	9.4	3.0	6.2	30	20	24	9.4	6.1	1.2	.85
17	2.4	8.6	9.0	3.0	5.8	118	20	15	12	4.7	1.1	.57
18	2.1	8.1	8.5	4.5	5.3	76	19	14	6.8	3.7	.75	1.6
19	1.9	12	8.1	8.0	5.0	30	16	14	6.1	3.5	.57	1.8
20	1.8	27	7.7	25	5.0	22	13	13	5.4	2.8	.49	1.2
21	1.8	17	7.6	16	5.0	20	12	79	5.1	2.8	.36	1.1
22	1.8	11	7.4	13	5.0	16	12	55	6.4	2.4	.42	1.8
23	1.9	10	7.3	35	5.0	15	11	27	6.1	1.9	.66	3.0
24	2.4	9.6	7.3	27	5.0	15	9.4	19	7.1	1.8	.57	2.1
25	2.2	8.5	7.2	20	4.5	17	8.3	15	8.3	1.5	.42	1.6
26	2.1	41	7.2	15	4.5	39	7.7	14	5.7	1.3	.30	1.1
27	2.1	25	7.1	12	4.1	29	7.7	12	5.4	2.1	.30	1.1
28	1.9	17	7.0	10	4.0	21	14	16	9.4	2.2	.75	.96
29	8.1	17	6.6	9.0	------	20	15	18	16	1.6	.66	.66
30	9.4	13	6.3	8.0	------	19	12	13	170	1.5	.49	.66
31	4.9	------	6.6	7.5	------	21	------	20	------	1.1	2.4	------
TOTAL	102.0	394.9	354.8	314.4	261.5	743.8	545.1	572.4	414.0	322.3	40.04	31.77
MEAN	3.29	13.2	11.4	10.1	9.34	24.0	18.2	18.5	13.8	10.4	1.29	1.06
MAX	15	41	36	35	40	118	48	79	170	55	5.4	3.0
MIN	1.0	4.0	6.3	3.0	4.0	4.0	7.7	7.7	4.4	1.1	.30	.30
CFSM	.72	2.87	2.48	2.20	2.03	5.22	3.96	4.02	3.00	2.26	.28	.23
IN.	.82	3.19	2.87	2.54	2.11	6.02	4.41	4.63	3.35	2.61	.32	.26

CAL YR 1972 TOTAL 3,001.19 MEAN 8.20 MAX 63 MIN .60 CFSM 1.78 IN 24.27
WTR YR 1973 TOTAL 4,097.01 MEAN 11.2 MAX 170 MIN .30 CFSM 2.43 IN 33.13

PEAK DISCHARGE (BASE, 55 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1545	2.54	109	5-21	0830	2.55	111
3-17	1845	3.01	234	6-30	1030	3.75	535
3-26	1145	2.22	55	7-4	1915	2.69	145
4-2	0115	2.26	60				

01142500 Ayers Brook at Randolph, Vt.

LOCATION.--Lat 43°56'03", long 72°39'30", Orange County, on right bank 55 ft (17 m) upstream from bridge on State Highway 12, just north of village limits of Randolph, 0.4 mi (0.6 km) upstream from Adams Brook, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--30.5 mi^2 (79.0 km^2).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.75 ft (192.557 m) above mean sea level (levels by Corps of Engineers); prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--34 years, 45.2 ft^3/s (1.280 m^3/s), 20.13 in/yr (511 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,600 ft^3/s (73.6 m^3/s) June 30 (gage height, 9.12 ft or 2.780 m), from rating curve extended as explained below; minimum, 5.9 ft^3/s (0.17 m^3/s) Oct. 6.

Period of record: Maximum discharge, 2,600 ft^3/s (73.6 m^3/s) June 30, 1973 (gage height, 9.12 ft or 2.780 m, present datum), from rating curve extended above 500 ft^3/s (14.2 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.6 ft^3/s (0.017 m^3/s) July 27, 1965.

Maximum stage since at least 1830, about 17 ft or 5.2 m (present datum) in November 1927.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1972: 1949(M), 1952(M), 1953(P), 1958(P), 1960(M), 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	17	78	78	52	35	211	89	105	633	19	9.5
2	8.6	21	72	68	89	36	495	84	97	271	29	9.2
3	7.7	30	71	64	190	38	359	84	81	201	27	9.2
4	7.7	25	66	62	135	42	263	90	74	165	22	8.9
5	7.4	25	64	54	105	57	271	78	72	145	23	8.9
6	6.6	27	93	43	82	53	239	75	66	116	18	8.6
7	59	29	126	38	80	47	223	69	65	97	19	10
8	81	55	128	40	70	77	198	64	59	80	18	9.8
9	29	261	100	45	60	92	168	75	52	69	23	9.5
10	22	116	75	48	52	79	159	82	47	61	15	9.5
11	18	85	66	45	47	73	150	120	42	61	20	8.9
12	16	76	73	43	45	123	133	99	66	52	23	8.6
13	18	68	90	40	47	193	123	84	74	46	17	8.6
14	17	64	68	40	50	168	122	77	67	105	16	8.4
15	17	63	61	41	49	138	125	74	48	65	18	11
16	16	57	59	39	48	169	127	145	72	51	16	10
17	16	54	56	39	43	448	158	94	109	43	14	9.8
18	14	51	56	53	43	663	186	89	64	38	12	21
19	14	49	66	73	46	287	188	110	57	34	15	24
20	13	79	60	140	44	217	168	93	51	33	14	14
21	13	69	56	95	43	176	141	265	47	32	13	11
22	13	54	55	80	43	154	144	258	55	29	13	11
23	14	51	54	216	39	141	140	180	48	26	13	24
24	16	51	53	166	38	140	115	144	43	24	12	15
25	15	48	52	120	36	145	100	124	51	22	12	13
26	14	113	52	106	35	215	89	113	42	21	12	11
27	13	135	52	95	35	193	87	99	39	23	12	9.8
28	12	98	50	80	35	167	149	107	37	27	13	9.8
29	22	93	47	72	------	162	129	121	49	32	14	9.8
30	27	78	45	60	------	155	102	98	1,200	26	11	9.8
31	20	------	50	54	------	171	------	106	------	21	9.5	------
TOTAL	578.0	2,042	2,094	2,237	1,681	4,854	5,262	3,390	2,979	2,649	512.5	341.6
MEAN	18.6	68.1	67.5	72.2	60.0	157	175	109	99.3	85.5	16.5	11.4
MAX	81	261	128	216	190	663	495	265	1,200	633	29	24
MIN	6.6	17	45	38	35	35	87	64	37	21	9.5	8.4
CFSM	.61	2.23	2.21	2.37	1.97	5.15	5.74	3.57	3.26	2.80	.54	.37
IN.	.70	2.49	2.55	2.73	2.05	5.92	6.42	4.13	3.63	3.23	.63	.42

CAL YR 1972 TOTAL 23,121.7 MEAN 63.2 MAX 579 MIN 6.3 CFSM 2.07 IN 28.20
WTR YR 1973 TOTAL 28,620.1 MEAN 78.4 MAX 1,200 MIN 6.6 CFSM 2.57 IN 34.91

PEAK DISCHARGE (BASE, 350 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0730	3.87	382				
3-18	0400	5.75	938				
4-2	1530	4.81	633				
5-21	1430	3.85	378				
6-30	1400	9.12	2,600				

01144000 White River at West Hartford, Vt.

LOCATION.--Lat 43°42'51", long 72°25'07", Windsor County, on left bank 700 ft (200 m) upstream from highway bridge at West Hartford and 7.4 mi (11.9 km) upstream from mouth.

DRAINAGE AREA.--690 mi² (1,790 km²).

PERIOD OF RECORD.--June 1915 to current year. October 1927 to September 1928 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 374.53 ft (114.157 m) above mean sea level. Prior to Oct. 30, 1927, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--58 years, 1,164 ft³/s (32.96 m³/s), 22.91 in/yr (582 mm/yr).

EXTREMES.--Current year: Maximum discharge, 42,300 ft³/s (1,200 m³/s) June 30 (gage height, 19.13 ft or 5.831 m); minimum, 167 ft³/s (4.73 m³/s) Sept. 14.

Period of record: Maximum discharge, 120,000 ft³/s (3,400 m³/s) Nov. 4, 1927 (gage height, 29.3 ft or 8.93 m, from floodmarks), from rating curve extended above 29,000 ft³/s (821 m³/s) on basis of slope-area measurement of peak flow; minimum observed, about 35 ft³/s (0.99 m³/s) Aug. 4, 1918; minimum daily, 54 ft³/s (1.53 m³/s) Sept. 27, 28, 1963.

Stage and discharge of the flood of Nov. 4, 1927, are the greatest since at least 1761.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation at low flow during period 1934-50 caused by powerplant above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1928(M). WSP 1031: 1916(m), 1923. WSP 1301: 1916-26(M), 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	560	1,840	1,720	1,150	720	4,190	2,910	2,420	13,300	633	252
2	279	554	1,610	2,100	1,650	790	10,800	1,860	2,110	5,250	512	266
3	236	1,170	1,500	1,530	3,900	784	8,120	1,890	1,810	3,670	735	236
4	216	1,040	1,300	1,300	3,490	798	5,470	2,160	1,620	3,090	527	213
5	203	903	1,200	1,440	2,560	1,020	5,380	1,840	1,580	2,930	438	197
6	197	854	1,700	1,100	2,020	1,160	4,540	1,730	1,450	2,350	415	187
7	485	875	5,200	680	1,950	1,350	4,190	1,580	1,370	1,960	419	360
8	2,510	1,450	2,403	760	1,930	1,400	3,860	1,440	1,260	1,690	620	272
9	1,040	7,440	2,300	850	1,650	3,100	3,270	1,570	1,130	1,470	378	223
10	687	3,440	2,100	1,100	1,290	2,350	3,060	1,870	1,240	1,320	330	230
11	532	2,400	1,700	1,250	1,200	1,950	2,880	2,910	910	1,250	424	191
12	527	2,040	1,350	1,100	1,190	3,000	2,540	2,830	1,390	1,120	527	185
13	522	1,860	1,850	940	1,250	6,550	2,320	2,530	1,990	1,230	438	170
14	512	1,760	1,900	900	1,200	4,590	2,260	2,090	1,540	1,370	376	157
15	496	1,600	1,550	960	1,250	3,300	2,410	1,890	1,140	1,520	367	181
16	486	1,400	1,400	940	1,260	3,680	2,610	2,780	1,160	1,160	352	229
17	457	1,230	1,300	860	1,050	10,600	3,760	2,470	2,580	992	331	216
18	433	1,250	1,150	1,000	890	17,200	4,590	2,110	1,670	889	298	242
19	419	1,140	1,500	1,500	960	6,570	4,510	2,310	1,370	798	282	400
20	387	1,740	1,480	2,750	1,050	4,480	4,030	2,490	1,180	724	275	369
21	374	1,940	1,320	2,700	1,040	3,520	3,200	6,680	1,060	712	257	268
22	365	1,390	1,240	2,190	1,020	3,070	3,620	7,710	1,210	675	266	236
23	365	1,120	1,290	4,090	985	2,670	3,830	4,510	1,070	619	257	335
24	387	1,270	1,250	4,270	880	2,560	2,860	3,370	962	564	253	301
25	401	1,190	1,240	2,870	750	2,580	2,350	2,790	1,060	517	270	294
26	378	2,290	1,250	2,460	720	3,710	2,070	2,480	948	471	216	264
27	356	4,210	1,220	2,150	640	4,160	1,910	2,200	862	522	229	236
28	343	2,600	1,140	1,980	660	3,240	2,820	2,150	819	576	254	223
29	419	2,320	948	1,750	------	3,090	2,920	2,540	1,290	565	326	237
30	840	1,910	918	1,200	------	2,960	2,310	2,220	22,400	576	268	230
31	669	------	1,100	1,100	------	3,210	------	1,990	------	481	262	------
TOTAL	15,793	54,946	49,246	51,520	39,465	109,862	112,610	80,910	61,879	53,991	10,999	7,356
MEAN	509	1,832	1,589	1,662	1,409	3,544	3,754	2,610	2,063	1,742	355	246
MAX	2,510	7,440	5,200	4,270	3,900	17,200	10,800	7,710	22,400	13,300	735	400
MIN	197	554	918	680	640	720	1,910	1,440	819	471	216	157
CFSM	.74	2.66	2.30	2.41	2.04	5.14	5.44	3.78	2.99	2.52	.51	.36
IN.	.85	2.96	2.66	2.78	2.13	5.92	6.07	4.36	3.34	2.91	.59	.40

CAL YR 1972 TOTAL 546,544 MEAN 1,493 MAX 15,600 MIN 197 CFSM 2.16 IN 29.47
WTR YR 1973 TOTAL 648,587 MEAN 1,777 MAX 22,400 MIN 167 CFSM 2.58 IN 34.97

PEAK DISCHARGE (BASE, 11,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0330	14.86	24,400				
4-2	1400	11.24	12,900				
6-30	1700	19.13	42,300				

01144500 Connecticut River at White River Junction, Vt.

LOCATION.--Lat 43°38'49", long 72°18'53", Windsor County, on right bank 50 ft (15 m) downstream from railroad bridge at White River Junction, 500 ft (150 m) downstream from White River, and at mile 215.0 (kilometre 345.9).

DRAINAGE AREA.--4,092 mi² (10,598 km²).

PERIOD OF RECORD.--October 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.52 ft (97.999 m) above mean sea level. Prior to June 16, 1918, nonrecording gage on downstream side of pier of railroad bridge 50 ft (15 m) upstream at same datum. June 16, 1918, to Nov. 2, 1930, nonrecording gage at various locations on upstream and downstream sides of railroad bridge at same datum.

AVERAGE DISCHARGE.--62 years, 7,066 ft³/s (200.1 m³/s), 23.45 in/yr (596 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 79,100 ft³/s (2,240 m³/s) June 30 (gage height, 25.30 ft or 7.711 m); minimum daily, 495 ft³/s (14.0 m³/s) Oct. 15.

Period of record: Maximum discharge, 136,000 ft³/s (3,850 m³/s) Nov. 4, 1927 (gage height, 35.0 ft or 10.67 m, present site), from rating curve extended above 70,000 ft³/s (1,980 m³/s); minimum daily, 82 ft³/s (2.32 m³/s) Aug. 8, 1965.

Stage and discharge of the flood of Nov. 4, 1927, are the greatest since at least 1760.

REMARKS.--Records good except those for winter period and period of doubtful gage-height record, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Union Village Reservoir (see p.215), and other reservoirs (combined usable capacity, about 17,200,000,000 ft³ or 487,000,000 m³).

REVISIONS (WATER YEARS).--WSP 741: 1932 (adjusted monthly and yearly figures only). WSP 781: 1928(M). WSP 891: Drainage area. WSP 1301: 1922-26(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,190	5,150	9,550	5,360	8,800	6,340	13,300	15,900	16,300	67,800	5,660	1,360
2	2,130	4,260	8,220	8,780	9,200	5,860	27,500	15,500	16,900	60,000	5,930	746
3	1,400	5,790	3,170	10,000	15,700	4,430	34,800	13,400	12,200	49,000	4,440	826
4	1,190	4,530	6,450	10,800	18,900	3,930	28,900	14,600	10,300	37,000	3,280	5,590
5	1,520	3,380	5,900	7,410	15,900	5,850	26,200	15,100	11,500	25,000	1,430	3,270
6	1,180	4,640	7,660	5,740	15,500	7,610	24,100	13,100	13,000	19,000	3,250	2,220
7	882	4,410	12,700	4,700	13,500	7,630	22,000	9,000	13,500	18,000	3,640	4,040
8	6,040	5,570	12,500	5,500	12,600	7,840	17,300	8,740	11,500	15,000	3,860	2,430
9	3,220	16,600	9,850	5,000	11,200	11,400	16,200	8,960	6,400	11,500	3,840	1,200
10	3,410	12,100	8,630	7,600	7,840	13,400	14,600	11,200	5,000	10,000	6,850	2,320
11	3,160	11,600	8,060	7,800	6,600	12,900	14,000	12,900	7,200	10,500	1,970	2,210
12	3,590	8,110	8,430	7,760	6,230	15,800	12,000	14,000	8,800	8,600	1,720	3,150
13	4,860	8,790	8,250	3,850	8,750	27,800	11,300	13,700	13,500	7,200	3,900	2,910
14	729	8,620	6,830	2,790	9,530	26,600	10,300	10,700	9,630	8,800	3,880	2,000
15	495	6,320	6,140	8,120	8,810	23,600	9,220	10,500	12,500	7,600	3,020	1,830
16	2,910	6,420	5,840	7,860	9,830	22,400	10,900	14,000	8,800	7,700	2,460	1,080
17	2,590	5,230	5,340	5,440	7,420	30,300	15,000	13,500	24,800	7,400	2,560	3,450
18	3,560	4,180	3,510	5,700	5,400	48,000	20,100	14,000	23,400	6,400	834	5,120
19	4,460	1,950	7,070	6,000	7,559	38,300	21,100	12,000	16,600	5,470	1,920	6,380
20	2,580	6,760	6,600	9,700	8,760	31,300	20,100	11,500	14,200	7,850	2,510	8,960
21	1,810	8,070	8,550	11,500	8,260	24,500	18,100	20,000	13,100	4,670	2,300	5,110
22	882	5,200	6,440	11,000	8,520	18,700	19,800	33,400	11,800	1,730	2,490	4,460
23	1,570	4,250	7,010	20,500	7,790	16,300	22,600	31,000	14,600	4,400	3,000	5,980
24	2,360	5,080	5,700	25,100	6,000	17,800	24,700	25,200	13,000	4,530	2,700	7,540
25	3,100	4,390	4,670	20,600	3,100	17,100	22,100	18,000	7,000	3,640	1,170	5,910
26	2,720	6,620	6,090	18,000	7,400	19,900	18,000	16,000	9,400	3,800	1,090	6,910
27	3,140	12,200	4,890	14,900	7,000	21,200	14,400	13,500	9,000	4,470	2,490	4,260
28	1,290	12,100	4,580	12,500	6,600	16,700	14,700	10,500	9,600	4,870	3,170	3,650
29	2,190	12,900	5,370	10,500	------	13,500	14,900	11,500	11,000	2,540	4,460	3,430
30	5,570	10,200	4,470	9,400	------	12,100	14,100	14,400	47,700	5,380	5,440	1,560
31	4,710	------	2,860	8,600	------	12,800	------	15,100	------	5,720	5,620	------
TOTAL	80,438	215,420	211,330	298,510	262,690	541,890	552,320	460,900	402,280	435,570	100,884	109,902
MEAN	2,595	7,181	6,817	9,629	9,382	17,480	18,410	14,870	13,410	14,050	3,254	3,663
MAX	6,040	16,600	12,700	25,100	18,900	48,000	34,800	33,400	47,700	67,800	6,850	8,960
MIN	495	1,950	2,860	2,790	3,100	3,930	9,220	8,740	5,000	1,730	834	746
MEAN†	2,901	7,386	6,320	8,884	7,576	17,300	20,630	15,730	13,890	13,700	3,036	3,445
CFSM†	.71	1.80	1.55	2.17	1.85	4.23	5.04	3.84	3.39	3.35	.74	.84
IN†	.82	2.01	1.78	2.50	1.93	4.88	5.63	4.43	3.79	3.86	.86	.94

CAL YR 1972 TOTAL 2,847,837 MEAN 7,781 MAX 57,800 MIN 334 MEAN† 7,855 CFSM† 1.92 IN† 26.13
WTR YR 1973 TOTAL 3,672,054 MEAN 10,060 MAX 67,800 MIN 495 MEAN† 10,070 CFSM† 2.46 IN† 33.43

PEAK DISCHARGE (BASE, 34,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0530	19.63	52,600	5-22	1630	15.67	35,900
4-3	0415	16.09	37,600	6-30	1830	25.30	79,100

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and Union Village Reservoir.

NOTE.--Doubtful gage-height record Aug. 5 to Sept. 13.

01145000 Mascoma River at West Canaan, N.H.

LOCATION.--Lat 43°39'00", long 72°04'50", Grafton County, on right bank 45 ft (14 m) downstream from Boston and Maine Railroad bridge, 0.9 mi (1.4 km) east of West Canaan, 1.2 mi (1.9 km) downstream from Indian River, 3.5 mi (5.6 km) west of Canaan, and at mile 19.3 (kilometre 31.1).

DRAINAGE AREA.--80.5 mi² (208.5 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 835 ft (254.5 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 116 ft³/s (3.285 m³/s), 19.57 in/yr (497 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,150 ft³/s (89.2 m³/s) July 1 (gage height, 8.31 ft or 2.533 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 14.

Period of record: Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 27, 1953 (gage height, 8.94 ft or 2.725 m), from rating curve extended above 1,900 ft³/s (53.8 m³/s) on basis of slope-area measurement at gage height 9.6 ft (2.93 m); minimum, 2.9 ft³/s (0.082 m³/s) Aug. 8, 17, 18, 19, 1965.

Flood in September 1938 reached a stage of 9.6 ft (2.93 m), from floodmarks (discharge, 4,310 ft³/s or 122 m³/s, from rating curve extended above 1,900 ft³/s or 53.8 m³/s as explained above).

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	65	177	90	140	65	327	164	224	2,370	18	38
2	21	70	150	170	160	67	836	145	220	989	89	27
3	18	179	130	150	300	65	957	146	168	521	176	22
4	17	140	120	130	400	75	629	247	143	423	78	19
5	15	110	130	115	300	87	542	189	129	1,580	48	17
6	14	98	155	100	240	104	495	159	118	836	35	16
7	30	93	423	85	200	89	435	134	108	403	29	28
8	239	92	360	78	190	191	387	118	93	254	25	22
9	100	455	310	74	160	423	317	152	81	189	23	18
10	59	522	250	70	140	362	274	260	77	143	21	16
11	44	271	200	72	125	258	263	263	65	120	260	15
12	37	202	160	72	115	309	224	360	100	97	115	14
13	42	167	145	68	105	542	198	314	166	82	63	13
14	46	146	140	66	100	453	185	232	174	87	45	12
15	50	149	135	64	105	312	204	189	104	88	40	15
16	51	129	130	64	110	269	269	243	100	81	42	18
17	44	105	125	64	100	483	436	237	183	65	36	16
18	38	100	110	68	90	1,260	524	191	121	56	30	19
19	34	90	120	100	85	706	517	235	97	51	26	44
20	31	206	120	250	90	400	450	195	81	44	23	29
21	29	290	110	280	90	279	344	654	69	42	21	22
22	27	174	105	250	90	230	317	1,160	71	38	19	21
23	29	140	100	320	87	202	300	619	71	33	18	62
24	37	115	92	400	84	191	235	373	66	29	17	47
25	36	108	90	450	78	200	193	272	193	26	15	38
26	32	247	88	350	72	309	162	224	120	24	14	30
27	29	608	86	280	66	462	156	189	87	25	14	25
28	27	275	84	230	62	339	269	185	304	30	21	22
29	47	277	82	200	------	279	249	281	347	24	27	20
30	119	204	75	170	------	247	230	228	1,300	21	20	19
31	85	------	80	150	------	258	------	232	------	19	18	------
TOTAL	1,450	5,827	4,582	5,030	3,884	9,517	10,874	8,590	5,180	8,790	1,426	724
MEAN	46.8	194	148	162	139	307	362	277	173	284	46.0	24.1
MAX	239	608	423	450	400	1,260	957	1,160	1,300	2,370	260	62
MIN	14	65	75	64	62	65	162	118	65	19	14	12
CFSM	.58	2.41	1.84	2.01	1.73	3.81	4.50	3.44	2.15	3.53	.57	.30
IN.	.67	2.69	2.12	2.32	1.79	4.40	5.33	3.97	2.39	4.06	.66	.33

CAL YR 1972 TOTAL 50,475 MEAN 138 MAX 1,160 MIN 12 CFSM 1.71 IN 23.33
WTR YR 1973 TOTAL 65,874 MEAN 180 MAX 2,370 MIN 12 CFSM 2.24 IN 30.44

PEAK DISCHARGE (BASE, 950 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1200	5.70	1,400				
4-2	2100	5.40	1,250				
5-22	0230	5.62	1,360				
7-1	0230	8.31	3,150				
7-5	0700	6.38	1,790				

01150500 Mascoma River at Mascoma, N.H.

LOCATION.--Lat 43°39'01", long 72°11'05", Grafton County, on left bank at Mascoma, 250 ft (76 m) downstream from railroad bridge, 1,000 ft (300 m) downstream from outlet of Mascoma Lake, and 9.9 mi (15.9 km) upstream from mouth.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--August 1923 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m) from topographic map.

AVERAGE DISCHARGE.--50 years, 213 ft³/s (6.032 m³/s), 18.91 in/yr (480 mm/yr), adjusted for storage since October 1928.

EXTREMES.--Current year: Maximum discharge, 3,660 ft³/s (104 m³/s) July 1 (gage height, 5.75 ft or 1.753 m); minimum daily, 25 ft³/s (0.71 m³/s) July 18, 19.

Period of record: Maximum discharge, 5,840 ft³/s (165 m³/s) Mar. 19, 1936 (gage height, 7.50 ft or 2.286 m), from rating curve extended above 2,500 ft³/s (70.8 m³/s) on basis of computations of flow over dams at gage heights 6.85 ft (2.088 m) and 7.50 ft (2.286 m); minimum daily, 2 ft³/s (0.057 m³/s) Feb. 3, 1939, Sept. 1, 1940.

REMARKS.--Records excellent. Flow regulated by Mascoma and Crystal Lakes and Goose and Grafton Ponds (see p. 215).

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 801: 1925(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	103	554	222	351	166	530	275	406	3,120	62	59
2	143	107	401	305	337	164	620	297	411	3,170	62	60
3	143	124	260	368	346	161	884	278	411	2,100	63	61
4	141	155	189	364	387	161	1,110	317	406	1,590	66	61
5	141	166	201	351	475	159	1,160	355	297	1,650	67	61
6	141	166	207	337	536	161	1,130	337	229	2,000	113	60
7	141	168	209	309	514	164	1,080	342	229	1,650	134	60
8	145	166	465	293	465	169	1,010	373	229	1,270	132	60
9	155	202	758	286	425	201	926	337	225	998	130	60
10	157	450	842	242	313	256	848	333	204	806	119	60
11	159	620	752	169	253	293	764	401	114	644	103	60
12	157	692	656	169	246	401	692	536	114	330	108	60
13	155	548	584	171	195	626	536	626	118	52	207	59
14	152	460	530	171	161	872	382	674	133	54	249	58
15	150	406	377	171	166	938	387	590	148	58	240	58
16	148	321	301	171	171	830	317	554	159	60	173	58
17	195	256	305	169	174	824	189	554	225	40	107	58
18	225	239	297	166	174	1,070	210	536	460	25	70	57
19	137	166	297	166	174	1,390	242	481	596	25	70	58
20	133	75	297	179	171	1,320	377	415	359	55	70	58
21	118	185	297	229	171	1,090	668	794	145	66	67	65
22	105	210	293	309	171	890	776	1,410	145	66	63	75
23	96	219	293	492	176	740	536	1,540	145	65	62	75
24	89	216	289	692	176	620	525	1,410	133	65	61	77
25	83	210	286	794	176	548	530	1,010	124	63	60	77
26	77	396	262	818	176	530	396	740	305	63	59	77
27	72	602	282	734	171	590	161	650	382	63	58	78
28	69	692	282	626	169	662	118	460	377	63	58	79
29	71	692	232	548	------	644	130	415	475	63	58	79
30	80	620	164	445	------	584	192	445	1,500	63	57	79
31	96	------	176	368	------	542	------	445	------	62	58	------
TOTAL	4,017	9,668	11,438	10,834	7,420	17,766	17,426	17,930	9,204	20,399	3,006	1,947
MEAN	130	322	369	349	265	573	581	578	307	658	97.0	64.9
MAX	225	692	842	818	536	1,390	1,160	1,540	1,500	3,170	249	79
MIN	69	75	164	166	161	159	118	275	114	25	57	57
MEAN†	79.7	384	301	342	249	688	688	549	352	588	73.0	26.2
CFSM†	.52	2.51	1.97	2.24	1.63	4.37	4.50	3.59	2.30	3.84	.48	.17
IN†	.60	2.80	2.27	2.65	1.70	5.04	5.02	4.14	2.57	4.43	.55	.20

CAL YR 1972 TOTAL 99,503 MEAN 272 MAX 1,700 MIN 41 MEAN† 267 CFSM† 1.75 IN† 23.78
WTR YR 1973 TOTAL 131,055 MEAN 359 MAX 3,170 MIN 25 MEAN† 360 CFSM† 2.35 IN† 31.96

† Adjusted for change in contents in Mascoma and Crystal Lakes and Goose and Grafton Ponds.

01150800 Kent Brook near Sherburne, Vt.

LOCATION.--Lat 43°40'24", long 72°48'33", Rutland County, on left bank 40 ft (12 m) downstream from culvert on State Highway 100, 1.4 mi (2.3 km) upstream from mouth, and 2 mi (3.2 km) northwest of Sherburne.

DRAINAGE AREA.--3.31 mi^2 (8.57 km^2).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map. Prior to Sept. 13, 1967, at site 25 ft (7.6 m) upstream at same datum.

AVERAGE DISCHARGE.--10 years, 8.03 ft^3/s (0.227 m^3/s), 32.94 in/yr (837 mm/yr).

EXTREMES.--Current year: Maximum discharge, 600 ft^3/s (17.0 m^3/s) June 30 (gage height, 12.81 ft or 3.90 m, at upstream side of culvert, from floodmark), measurement of flow through culvert; minimum, 0.93 ft^3/s (0.026 m^3/s) Aug. 21, 22, 25, 26.

Period of record: Maximum discharge, 600 ft^3/s (17.0 m^3/s) June 30, 1973 (gage height, 12.81 ft or 3.90 m, at upstream side of culvert, from floodmark), measurement of flow through culvert; minimum, 0.27 ft^3/s (0.008 m^3/s) Aug. 7, 8, 1965.

REMARKS.--Records fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	4.6	8.6	20	9.0	5.2	24	13	10	150	2.2	4.0
2	2.4	8.0	8.2	12	15	5.4	56	12	9.5	60	7.4	2.1
3	2.2	18	8.1	8.5	50	5.6	22	15	8.0	27	4.4	1.4
4	2.0	9.4	8.0	7.6	25	6.0	20	14	7.3	42	2.7	1.3
5	1.6	8.0	12	8.0	16	8.0	22	13	6.2	39	2.1	1.2
6	1.6	7.7	88	6.8	13	7.6	16	12	4.9	22	3.0	4.0
7	43	7.4	35	6.0	13	7.0	15	11	4.6	16	5.9	2.5
8	18	26	19	6.5	12	50	14	10	3.9	13	2.4	1.7
9	8.4	50	17	8.0	10	27	12	12	3.7	11	2.0	1.4
10	6.1	16	14	7.2	8.5	17	12	12	3.5	10	1.7	1.2
11	4.8	11	12	6.7	8.0	15	11	20	3.2	8.7	5.3	1.1
12	7.0	11	10	6.4	7.6	45	10	19	5.7	12	3.3	1.1
13	8.0	12	12	5.9	8.2	41	9.5	17	6.0	14	2.2	1.2
14	6.0	11	11	5.9	8.0	23	9.5	14	6.0	13	2.1	1.2
15	6.5	9.4	10	5.9	8.0	18	11	14	3.2	11	2.4	1.5
16	5.2	8.7	8.8	5.6	7.7	31	17	20	6.8	12	2.4	1.3
17	5.7	8.4	8.0	5.6	7.1	111	24	14	7.7	8.7	2.0	1.2
18	5.0	7.3	7.5	8.7	6.4	64	24	17	8.7	5.1	1.6	3.1
19	4.5	7.7	9.0	15	7.4	22	23	32	5.4	3.6	1.2	2.3
20	4.2	17	8.6	30	7.2	17	19	23	2.8	2.8	1.2	1.5
21	4.0	9.8	8.4	15	7.0	15	18	117	2.5	2.8	1.1	1.4
22	3.9	8.0	8.4	13	6.8	13	27	35	2.7	2.8	1.0	2.9
23	4.3	7.3	8.0	45	6.5	12	23	19	3.2	2.4	1.0	2.8
24	4.6	7.0	8.0	21	6.0	12	17	15	14	2.4	1.0	2.0
25	4.3	6.4	7.7	15	5.6	12	14	14	13	2.1	1.0	1.8
26	4.1	30	7.7	13	5.1	20	13	13	6.5	2.2	.93	1.5
27	3.9	17	7.4	13	4.7	18	14	8.4	5.1	5.6	7.0	1.5
28	3.8	11	7.4	12	4.9	15	21	13	6.5	3.1	2.1	1.5
29	6.8	9.8	7.0	10	------	14	18	14	20	2.7	1.6	1.4
30	7.0	9.1	6.6	8.5	------	14	14	9.5	300	2.7	3.1	1.4
31	6.2	------	8.0	7.6	------	18	------	11	------	2.1	11	------
TOTAL	198.2	374.0	399.4	359.4	293.7	688.8	550.0	582.9	490.6	511.8	88.33	54.5
MEAN	6.39	12.5	12.9	11.6	10.5	22.2	18.3	18.8	16.4	16.5	2.85	1.82
MAX	43	50	88	45	50	111	56	117	300	150	11	4.0
MIN	1.6	4.6	6.6	5.6	4.7	5.2	9.5	8.4	2.5	2.1	.93	1.1
CFSM	1.93	3.78	3.90	3.50	3.17	6.71	5.53	5.68	4.95	4.98	.86	.55
IN.	2.23	4.20	4.49	4.04	3.30	7.74	6.18	6.55	5.51	5.75	.99	.61

CAL YR 1972 TOTAL 3,588.90 MEAN 9.81 MAX 164 MIN 1.3 CFSM 2.96 IN 40.33
WTR YR 1973 TOTAL 4,591.63 MEAN 12.6 MAX 300 MIN .93 CFSM 3.81 IN 51.60

PEAK DISCHARGE (BASE, 90 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1900	2.69	147	3-17	2345	3.34	280
11-9	0415	2.34	94	4-2	0530	2.37	98
12-6	1700	3.53	328	5-21	0730	3.46	310
3-8	1230	2.37	98	6-30	-	12.81	600

NOTE.--No gage-height record June 30 to July 3.

01151500 Ottauquechee River at North Hartland, Vt.

LOCATION.--Lat 43°36'09", long 72°21'17", Windsor County, on left bank 100 ft (30 m) upstream from highway bridge at North Hartland, 0.3 mi (0.5 km) downstream from North Hartland Dam, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--221 mi^2 (572 km^2).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 336.77 ft (102.647 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--43 years, 387 ft^3/s (10.96 m^3/s), 23.78 in/yr (604 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,010 ft^3/s (142 m^3/s) Mar. 20 (gage height, 7.94 ft or 2.420 m); minimum, 49 ft^3/s (1.39 m^3/s) Oct. 6; minimum daily, 56 ft^3/s (1.59 m^3/s) Sept. 14.

Period of record: Maximum discharge, 24,400 ft^3/s (691 m^3/s) Sept. 21, 1938 (gage height, 17.68 ft or 5.389 m), from rating curve extended above 6,200 ft^3/s (176 m^3/s) on basis of computations of flow over dams at gage heights 15.58, 17.68, and 21.5 ft (4.749, 5.389, and 6.55 m); minimum, 2.9 ft^3/s (0.082 m^3/s) July 31, 1933; minimum daily, 3.8 ft^3/s (0.11 m^3/s) July 3, 1933. Maximum discharge since construction of North Hartland Dam in March 1961, 5,930 ft^3/s (168 m^3/s) Apr. 26, 1969 (gage height, 8.52 ft or 2.597 m).

Maximum stage since at least 1760, 21.5 ft (6.55 m) in November 1927, from floodmarks (discharge, 30,400 ft^3/s or 861 m^3/s, by computation of peak flow over dam).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by powerplants above station and by North Hartland Reservoir (see p. 215) since March 1961; greater regulation by powerplants prior to 1958. Small seasonal storage in reservoir at Plymouth.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	186	630	460	400	262	1,310	655	605	514	141	97
2	106	191	540	660	500	274	2,720	602	590	1,080	161	117
3	79	398	500	415	1,500	280	2,910	584	536	2,330	217	118
4	72	405	450	390	1,360	287	2,010	624	386	3,850	163	84
5	71	311	400	410	955	381	2,070	540	443	4,440	140	74
6	60	289	659	350	679	422	1,600	508	394	4,610	122	76
7	153	336	1,860	270	712	370	1,430	463	389	4,340	124	89
8	755	369	1,100	280	660	576	1,300	425	328	4,220	129	82
9	308	1,740	950	340	560	1,120	1,090	478	308	2,820	114	73
10	196	1,490	800	400	425	893	1,040	539	283	1,320	108	70
11	157	819	650	377	410	760	978	1,380	170	460	132	64
12	141	672	445	345	400	1,070	825	1,040	80	445	149	58
13	157	610	635	306	438	1,780	777	998	87	400	120	57
14	163	579	610	291	415	1,780	760	778	705	400	110	56
15	189	566	510	310	427	1,450	824	667	312	345	103	66
16	191	494	410	310	410	1,300	933	1,020	69	245	122	71
17	168	425	380	290	380	1,670	1,260	806	73	280	113	64
18	154	437	340	320	330	2,280	1,410	782	150	375	101	61
19	146	400	560	460	370	2,350	1,380	926	280	259	95	132
20	152	760	520	1,050	366	3,890	1,180	887	277	237	90	104
21	122	785	425	973	348	3,790	972	2,420	335	228	85	81
22	126	539	415	648	342	1,820	1,020	3,250	533	220	80	77
23	126	409	415	1,360	326	934	1,040	1,710	356	197	80	148
24	130	438	415	1,630	297	886	817	1,200	268	185	78	129
25	127	420	415	942	270	896	684	973	259	173	72	104
26	121	901	415	812	250	1,350	583	858	286	165	70	95
27	119	1,720	410	711	230	1,470	584	750	318	209	71	83
28	114	1,020	380	661	240	1,120	1,120	749	299	222	106	75
29	163	836	320	500	------	1,030	993	908	531	172	109	71
30	319	683	310	410	------	956	762	750	933	158	82	67
31	252	------	350	380	------	1,040	------	667	------	149	86	------
TOTAL	5,291	19,228	17,219	17,061	14,000	38,487	36,382	28,937	10,583	35,048	3,473	2,543
MEAN	171	641	555	550	500	1,242	1,213	933	353	1,131	112	84.8
MAX	755	1,740	1,860	1,630	1,500	3,890	2,910	3,250	933	4,610	217	148
MIN	60	186	310	270	230	262	583	425	69	149	70	56
MEAN†	165	643	554	552	498	1,243	1,213	931	770	727	112	84.8
CFSM†	.75	2.91	2.51	2.50	2.25	5.62	5.49	4.21	3.48	3.29	.51	.38
IN.†	.86	3.25	2.89	2.88	2.35	6.49	6.12	4.86	3.89	3.80	.58	.43

CAL YR 1972 TOTAL 183,709 MEAN 502 MAX 3,320 MIN 33 MEAN† 502 CFSM† 2.27 IN† 30.93
WTR YR 1973 TOTAL 228,252 MEAN 625 MAX 4,610 MIN 56 MEAN† 625 CFSM† 2.83 IN† 38.38

† Adjusted for change in contents in North Hartland Reservoir.

01152500 Sugar River at West Claremont, N.H.

LOCATION.--Lat 43°23'15", long 72°21'45", Sullivan County, on right bank 0.2 mi (0.3 km) downstream from Redwater Brook at West Claremont, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--269 mi^2 (697 km^2).

PERIOD OF RECORD.--May 1928 to current year. Published as "at Claremont" prior to October 1928.

GAGE.--Water-stage recorder. Datum of gage is 358.78 ft (109.356 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1928, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum.

AVERAGE DISCHARGE.--45 years, 395 ft^3/s (11.19 m^3/s), 19.94 in/yr (506 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,630 ft^3/s (159 m^3/s) July 1 (gage height, 6.96 ft or 2.121 m); minimum daily, 60 ft^3/s (1.70 m^3/s) Oct. 6.

Period of record: Maximum discharge, 14,000 ft^3/s (396 m^3/s) Mar. 19, 1936 (gage height, 10.92 ft or 3.328 m), from rating curve extended above 6,700 ft^3/s (190 m^3/s) on basis of computations of flow over dam at gage heights 10.49 and 10.92 ft (3.197 and 3.328 m); maximum gage height, 11.80 ft (3.597 m) Mar. 12, 1936 (ice jam); minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Aug. 26, 1965.

REMARKS.--Records excellent except those for winter period, which are good, and those for period of no gage-height record, which are fair. Regulation by Sunapee Lake 25 mi (40 km) upstream (see p. 215) and occasional diurnal fluctuation at low flow by mills above station; greater regulation by mills prior to 1971.

REVISIONS (WATER YEARS).--WSP 711: 1930(M). WSP 756: Drainage area. WSP 1901: 1960 (adjusted figures only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	120	858	755	400	210	1,060	750	755	4,280	93	163
2	66	126	790	955	661	230	2,750	620	624	2,390	440	131
3	63	263	713	776	2,130	245	2,420	620	530	1,660	1,110	111
4	63	262	662	647	1,810	259	1,920	660	472	1,380	470	100
5	63	211	618	610	1,320	338	1,970	580	398	2,270	291	91
6	60	195	780	473	1,070	372	1,850	520	361	2,310	206	89
7	90	189	2,010	389	890	349	1,820	480	333	1,580	165	94
8	398	204	1,330	330	797	542	1,680	450	304	1,160	140	90
9	234	1,030	1,220	300	717	939	1,410	500	268	872	129	85
10	158	844	1,170	290	590	912	1,270	600	239	445	121	82
11	127	558	1,060	260	500	798	1,230	1,500	212	398	132	78
12	112	442	887	260	440	1,070	1,120	1,200	184	305	152	76
13	106	377	879	260	460	1,920	1,020	960	216	245	152	74
14	101	358	820	290	450	1,670	905	800	259	236	129	74
15	103	394	719	290	482	1,210	807	700	246	220	123	81
16	108	351	620	270	455	1,150	872	1,000	249	217	169	81
17	98	313	580	260	347	2,450	950	940	340	224	176	78
18	90	315	550	270	326	3,670	1,030	900	311	232	144	84
19	85	290	540	362	350	2,040	1,010	940	261	206	126	104
20	84	811	530	1,130	392	1,450	924	900	226	159	112	92
21	81	1,070	520	1,150	395	1,130	801	1,500	199	143	103	85
22	79	665	528	863	361	971	719	2,500	194	143	97	91
23	79	487	529	1,640	333	872	700	2,100	202	129	89	146
24	79	434	515	1,780	317	827	640	1,580	187	115	86	144
25	76	386	501	1,270	289	853	560	1,270	230	108	83	123
26	73	1,170	496	980	240	1,190	500	1,090	247	103	82	111
27	73	2,100	492	808	200	1,460	600	992	235	108	90	101
28	74	1,270	471	703	190	1,190	1,300	918	307	115	87	102
29	95	1,200	435	549	------	1,030	1,000	937	436	108	84	89
30	141	904	417	460	------	924	900	885	2,690	100	85	82
31	137	------	401	420	------	924	------	853	------	93	97	------
TOTAL	3,266	17,339	22,641	19,800	16,912	33,195	35,738	30,245	11,715	22,054	5,563	2,932
MEAN	105	578	730	639	604	1,071	1,191	976	391	711	179	97.7
MAX	398	2,100	2,010	1,780	2,130	3,670	2,750	2,500	2,690	4,280	1,110	163
MIN	60	120	401	260	190	210	500	450	184	93	82	74
MEAN†	81.1	663	626	658	552	1,151	1,240	977	439	647	163	50.3
CFSM†	.30	2.46	2.33	2.45	2.05	4.28	4.61	3.63	1.63	2.41	.61	.19
IN†	.35	2.75	2.68	2.82	2.14	4.93	5.15	4.19	1.82	2.77	.70	.21

CAL YR 1972 TOTAL 193,312 MEAN 528 MAX 3,700 MIN 50 MEAN† 532 CFSM† 1.98 IN† 26.92
WTR YR 1973 TOTAL 221,400 MEAN 607 MAX 4,280 MIN 60 MEAN† 605 CFSM† 2.25 IN† 30.51

PEAK DISCHARGE (BASE, 3,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0500	6.38	4,690				
4-2	1400	5.55	3,450				
7-1	0130	6.96	5,630				

† Adjusted for change in contents in Sunapee Lake.
NOTE.--No gage-height record Apr. 23 to May 23.

01153000 Black River at North Springfield, Vt.

LOCATION.--Lat 43°20'00", long 72°30'55", Windsor County, on right bank at North Springfield, 800 ft (250 m) downstream from North Springfield Dam, 1,300 ft (400 m) upstream from Great Brook, and 8.1 mi (13.0 km) upstream from mouth.

DRAINAGE AREA.--158 mi^2 (409 km^2).

PERIOD OF RECORD.--October 1929 to current year. October 1929 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 445.79 ft (135.877 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--44 years, 279 ft^3/s (7.901 m^3/s), 23.98 in/yr (609 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,290 ft^3/s (93.2 m^3/s) June 30 (gage height, 7.23 ft or 2.204 m); minimum daily, 29 ft^3/s (0.82 m^3/s) Sept. 14.

Period of record: Maximum discharge, 15,500 ft^3/s (439 m^3/s) Sept. 22, 1938 (gage height, 17.68 ft or 5.389 m), from rating curve extended above 3,200 ft^3/s (90.6 m^3/s) on basis of computations of flow over dams at gage heights 16.41 and 17.68 ft (5.002 and 5.389 m); minimum daily, 8.0 ft^3/s (0.23 m^3/s) July 8, 1962. Maximum discharge since construction of North Sringfield Dam in 1960, 3,550 ft^3/s (101 m^3/s) Apr. 11, 1962 (gage height, 6.43 ft or 1.960 m); maximum gage height, 7.23 ft (2.204 m) June 30, 1973.

REMARKS.--Records excellent. Flow regulated by mills above station and by North Springfield Reservoir (see p. 215) since November 1960. High flow slightly affected by retarding reservoirs since 1968.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M), 1934(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	140	466	376	250	150	1,010	483	389	210	76	45
2	38	154	415	583	300	170	2,340	421	322	395	129	52
3	40	292	351	421	1,320	189	2,460	396	285	968	145	51
4	36	207	343	354	1,460	196	1,810	436	250	1,670	125	39
5	33	167	305	350	1,040	271	1,490	382	248	1,240	81	40
6	33	198	446	275	570	299	1,320	349	204	1,970	82	43
7	88	204	1,580	210	506	282	1,100	317	212	2,420	102	49
8	390	271	988	200	459	455	1,010	281	193	2,390	100	42
9	247	1,360	760	190	393	864	789	291	159	2,410	89	39
10	163	914	622	180	270	760	598	376	151	2,520	59	38
11	140	559	567	175	230	607	451	1,150	140	2,740	85	37
12	170	416	413	170	230	759	313	961	129	2,550	86	31
13	147	337	443	170	264	1,270	539	782	188	2,270	109	39
14	115	348	450	175	261	1,200	929	628	222	1,320	107	29
15	168	351	368	197	274	1,240	825	428	158	490	95	41
16	110	302	340	203	268	1,170	750	745	170	220	109	37
17	101	255	315	192	220	1,490	974	654	292	190	118	42
18	109	244	275	225	180	1,670	1,200	674	244	171	89	50
19	110	224	306	321	185	2,030	1,140	1,080	203	145	77	72
20	108	557	302	889	228	2,780	987	850	173	137	69	62
21	104	628	278	966	222	2,700	790	2,040	142	129	66	49
22	80	403	260	612	225	1,860	692	2,440	150	123	56	47
23	60	290	278	1,180	216	685	695	1,280	168	110	54	89
24	75	269	263	1,470	190	576	581	840	141	97	55	86
25	91	288	255	850	165	587	439	564	144	92	51	65
26	84	788	254	621	145	911	406	513	132	79	41	73
27	62	1,640	250	484	140	1,070	406	460	127	98	53	70
28	62	1,080	241	450	140	874	863	392	127	107	51	65
29	91	717	212	380	------	773	850	548	406	95	47	51
30	162	480	197	300	------	678	614	457	1,640	83	45	45
31	156	------	218	260	------	710	------	457	------	77	46	------
TOTAL	3,411	14,083	12,761	13,429	10,351	29,276	28,371	21,675	7,509	27,516	2,497	1,518
MEAN	110	469	412	433	370	944	946	699	250	888	80.5	50.6
MAX	390	1,640	1,580	1,470	1,460	2,780	2,460	2,440	1,640	2,740	145	89
MIN	33	140	197	170	140	150	313	281	127	77	41	29
MEAN†	111	469	412	434	368	945	947	699	552	594	80.0	50.9
CFSM†	.70	2.97	2.61	2.75	2.33	5.98	5.99	4.42	3.49	3.76	.51	.32
IN.†	.81	3.31	3.01	3.17	2.43	6.90	6.69	5.10	3.90	4.34	.58	.36

CAL YR 1972 TOTAL 143,990 MEAN 393 MAX 2,990 MIN 33 MEAN† 393 CFSM† 2.49 IN† 33.90
WTR YR 1973 TOTAL 172,397 MEAN 472 MAX 2,780 MIN 29 MEAN† 472 CFSM† 2.99 IN† 40.59

† Adjusted for change in contents in North Springfield Reservoir.

01153500 Williams River at Brockways Mills, Vt.

LOCATION.--Lat 43°12'31", long 72°31'05", Windham County, on left bank 25 ft (7.6 m) upstream from highway bridge at Brockways Mills, 4 mi (6.4 km) downstream from Hall Brook, 4.6 mi (7.4 km) upstream from mouth, and 6 mi (9.7 km) northwest of Bellows Falls.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 166 ft³/s (4.701 m³/s), 21.89 in/yr (556 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,760 ft³/s (248 m³/s) June 30 (gage height, 13.28 ft or 4.048 m), from rating curve extended as explained below; minimum, 13 ft³/s (0.37 m³/s) Sept. 13.

Period of record: Maximum discharge, 8,910 ft³/s (252 m³/s) June 1, 1952 (gage height, 13.39 ft or 4.081 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of slope-area measurement at gage height 13.31 ft (4.057 m); minimum not determined, occurred Dec. 11, 1941, during period of ice effect; minimum daily, 3.6 ft³/s (0.10 m³/s) Aug. 27, 1949.

Flood in September 1938 had greatest discharge since at least 1753 (gage height, 22.7 ft or 6.92 m, from floodmarks). Flood in November 1927 reached a stage possibly 2 ft (1 m) higher than that of September 1938 flood because of backwater from mill dam, from information by local residents.

REMARKS.--Records good except those for winter period and period of doubtful or no gage-height record, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1031: 1943-44(P). WSP 1301: 1941-42(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	48	323	487	135	110	627	253	186	1.770	31	20
2	18	61	280	423	310	113	2.520	230	162	749	109	20
3	16	191	259	284	1.360	125	1.050	235	141	483	122	18
4	15	112	233	251	671	137	754	280	130	1.090	67	16
5	15	93	222	238	457	221	870	222	126	1.460	48	16
6	15	94	470	160	356	219	704	200	113	634	38	17
7	233	104	944	110	352	193	668	182	106	393	52	19
8	245	200	401	120	316	444	602	166	90	285	40	17
9	76	859	421	135	258	580	466	210	80	219	34	16
10	49	344	396	150	203	483	439	250	69	179	31	15
11	39	226	348	140	195	417	420	700	62	191	37	14
12	36	194	250	130	181	714	346	443	60	141	38	14
13	34	170	348	120	200	1.160	316	353	86	118	32	14
14	32	177	305	130	200	812	313	285	84	135	29	14
15	35	193	234	130	190	616	380	258	59	122	31	21
16	37	160	227	125	178	877	502	510	67	116	47	21
17	33	138	188	120	151	3,040	614	343	111	94	37	18
18	31	135	175	135	130	2.100	566	586	72	81	30	22
19	29	129	220	240	170	833	470	731	64	72	28	39
20	28	570	200	900	160	593	356	435	56	64	25	25
21	27	411	178	463	152	461	293	1.850	53	63	24	21
22	27	249	181	346	149	398	269	960	86	63	23	21
23	27	167	175	1.010	145	359	277	570	64	52	22	57
24	27	170	170	671	133	363	232	406	99	46	21	34
25	27	163	171	449	120	411	207	325	141	41	20	32
26	26	1.230	171	370	110	772	196	288	90	38	18	29
27	25	941	168	331	100	673	245	250	72	49	20	24
28	25	546	160	298	105	501	709	250	102	49	21	22
29	63	492	138	250	------	439	443	334	307	39	20	20
30	100	355	174	210	------	391	302	242	5.340	36	18	18
31	59	------	218	180	------	442	------	222	------	32	17	------
TOTAL	1.469	8.922	8.348	9,106	7.187	18.997	16.156	12.569	8.278	8.904	1.130	654
MEAN	47.4	297	269	294	257	613	539	405	276	287	36.5	21.8
MAX	245	1.230	944	1.010	1.360	3,040	2.520	1.850	5,340	1.770	122	57
MIN	15	48	138	110	100	110	196	166	53	32	17	14
CFSM	.46	2.88	2.61	2.85	2.50	5.95	5.23	3.93	2.68	2.79	.35	.21
IN.	.53	3.22	3.02	3.29	2.60	6.86	5.83	4.54	2.99	3.22	.41	.24

CAL YR 1972 TOTAL 90.569 MEAN 247 MAX 2.370 MIN 15 CFSM 2.40 IN 32.71
WTR YR 1973 TOTAL 101.720 MEAN 279 MAX 5.340 MIN 14 CFSM 2.71 IN 36.74

PEAK DISCHARGE (BASE, 2,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1700	7.46	2,980	5-21	1100	8.01	3,420
3-17	2100	10.17	5,470	6-30	1130	13.28	8,760
4-2	0700	8.51	3,860	7-4	2130	8.94	4,250

NOTE.--Doubtful or no gage-height record Oct. 1-6.

01154000 Saxtons River at Saxtons River, Vt.

LOCATION.--Lat 43°08'14", long 72°29'17", Windham County, on right bank 130 ft (40 m) upstream from highway bridge, 0.8 mi (1.3 km) east of Saxtons River, 1.4 mi (2.3 km) upstream from Bundy Brook, and 3.9 mi (6.3 km) upstream from mouth.

DRAINAGE AREA.--72.2 mi² (187.0 km²).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 117 ft³/s (3.313 m³/s), 22.01 in/yr (559 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,510 ft³/s (213 m³/s) June 30 (gage height, 13.26 ft or 4.042 m), from rating curve extended as explained below; minimum, 9.2 ft³/s (0.26 m³/s) Sept. 14.

Period of record: Maximum discharge, 7,510 ft³/s (213 m³/s) June 30, 1973 (gage height, 13.26 ft or 4.042 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurements at gage heights 10.51, 11.37, and 13.26 ft (3.203, 3.466, and 4.042 m); minimum, 1.9 ft³/s (0.054 m³/s) July 25, 1949; minimum daily, 2.4 ft³/s (0.068 m³/s) Aug. 6, 1955.

Maximum stage since at least 1869, 17.9 ft (5.46 m) in September 1938, from floodmarks (discharge not determined).

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow prior to 1962; fluctuation more frequent prior to 1946.

REVISIONS (WATER YEARS).--WSP 1301: 1948-49(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	34	263	386	120	75	440	205	170	1,070	21	14
2	12	45	220	305	245	77	2,110	187	146	401	129	15
3	10	176	206	216	980	81	740	203	129	247	112	14
4	10	101	192	196	472	97	545	219	123	312	61	12
5	10	83	187	180	323	143	601	182	122	565	42	11
6	9.8	80	314	130	248	141	495	165	117	310	34	12
7	172	83	536	100	236	132	455	148	110	203	31	15
8	186	156	287	90	212	277	407	136	97	148	27	13
9	62	687	295	100	176	363	324	172	85	116	24	12
10	40	271	270	110	145	320	327	191	76	96	21	10
11	32	177	234	105	140	278	312	446	68	109	42	10
12	29	151	189	100	130	500	275	307	62	86	35	10
13	27	128	232	94	140	784	257	253	76	74	29	10
14	25	145	205	100	135	547	251	201	78	73	26	9.6
15	30	159	176	100	135	434	277	178	62	72	27	12
16	29	133	160	96	127	645	324	404	64	73	40	13
17	26	119	140	94	110	2,320	407	262	82	58	32	11
18	24	115	130	100	100	1,410	407	440	67	52	26	13
19	23	110	160	180	120	561	340	425	61	45	21	20
20	21	508	151	550	115	407	275	293	56	40	20	15
21	20	359	139	322	108	319	232	1,350	53	40	19	13
22	20	200	145	244	106	279	211	577	85	40	17	14
23	20	145	136	750	100	257	209	368	64	34	16	29
24	20	145	131	466	93	259	178	295	56	32	15	21
25	20	139	130	310	85	284	158	255	56	28	14	19
26	20	1,140	132	254	78	521	158	230	72	26	13	16
27	19	696	131	223	72	461	197	205	58	35	14	14
28	19	406	124	203	73	345	513	201	110	33	15	13
29	44	377	107	184	------	305	329	224	293	26	14	12
30	64	280	124	155	------	273	242	185	3,350	23	13	11
31	81	------	187	130	------	298	------	209	------	23	12	------
TOTAL	1,097.8	7,348	6,033	6,573	5,124	13,193	11,996	9,116	6,048	4,490	962	413.6
MEAN	35.4	245	195	212	183	426	400	294	202	145	31.0	13.8
MAX	186	1,140	536	750	980	2,320	2,110	1,350	3,350	1,070	129	29
MIN	9.8	34	107	90	72	75	158	136	53	23	12	9.6
CFSM	.49	3.39	2.70	2.94	2.53	5.90	5.54	4.07	2.80	2.01	.43	.19
IN.	.57	3.79	3.11	3.39	2.64	6.80	6.18	4.70	3.12	2.31	.50	.21

CAL YR 1972 TOTAL 61,890.8 MEAN 169 MAX 1,410 MIN 8.3 CFSM 2.34 IN 31.89
WTR YR 1973 TOTAL 72,394.4 MEAN 198 MAX 3,350 MIN 9.6 CFSM 2.74 IN 37.30

PEAK DISCHARGE (BASE, 1,750 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1600	7.92	2,440				
3-17	1930	10.53	4,680				
4-2	0430	9.12	3,410				
5-21	0900	8.15	2,540				
6-30	1900	13.26	7,510				

01154500 Connecticut River at North Walpole, N.H.

LOCATION.--Lat 43°07'34", long 72°26'14", Cheshire County, on left bank at North Walpole, 100 ft (30 m) upstream from Saxtons River, 0.7 mi (1.1 km) downstream from Vilas Bridge between Bellows Falls, Vt., and North Walpole, N.H., and at mile 172.5 (kilometre 277.6). Records include flow of Saxtons River.

DRAINAGE AREA.--5,493 mi² (14,227 km²), includes that of Saxtons River.

PERIOD OF RECORD.--March 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 218.63 ft (66.638 m) above mean sea level.

AVERAGE DISCHARGE.--31 years, 9,097 ft³/s (257.6 m³/s), 22.49 in/yr (571 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 88,600 ft³/s (2,510 m³/s) July 1 (gage height, 28.68 ft or 8.742 m); minimum daily, 1,420 ft³/s (40.2 m³/s) Sept. 3.

Period of record: Maximum discharge, 97,000 ft³/s (2,750 m³/s) Mar. 27, 1953 (gage height, 30.37 ft or 9.257 m); minimum daily, 115 ft³/s (3.26 m³/s) Aug. 31, 1952, Sept. 2, 1957.

Maximum stage since at least 1750, 43.8 ft (13.35 m) Mar. 19, 1936, from floodmarks.

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 215), and other reservoirs (combined usable capacity, about 24,800,000,000 ft³ or 702,000,000 m³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,600	4,870	13,800	7,640	11,500	8,260	19,500	18,100	18,600	83,600	5,610	3,180
2	2,300	4,810	13,200	10,900	11,000	7,600	38,600	19,100	19,000	72,800	7,520	1,470
3	1,850	7,320	9,380	13,500	21,000	6,740	48,400	16,300	16,000	60,200	8,140	1,420
4	1,750	5,950	7,880	13,700	29,000	5,320	41,500	17,200	11,700	50,200	3,690	4,730
5	2,100	4,220	7,860	12,900	23,000	6,900	36,800	18,900	11,600	49,500	1,440	4,580
6	1,800	5,150	9,180	10,700	20,000	7,690	32,800	16,100	13,800	34,500	3,920	2,530
7	2,300	4,680	22,100	7,000	19,000	9,550	30,900	13,000	14,000	27,300	3,920	4,360
8	5,600	7,170	19,100	6,000	17,000	10,600	25,700	11,300	13,900	26,100	4,280	2,630
9	6,400	19,500	15,300	5,200	14,000	15,400	21,800	10,700	9,210	18,400	4,960	1,650
10	4,500	18,100	15,800	9,000	12,500	19,700	20,000	13,000	4,990	16,100	5,570	2,600
11	3,200	17,400	13,600	8,400	12,000	18,500	19,600	19,300	7,680	16,300	4,920	3,040
12	2,200	11,600	12,700	9,200	7,200	20,100	16,100	20,300	8,520	13,500	1,720	3,070
13	5,800	9,590	11,900	8,000	9,500	37,600	15,800	19,500	11,500	12,100	4,050	2,230
14	1,800	11,500	13,000	6,000	11,500	38,800	15,100	15,000	11,900	8,370	4,220	2,440
15	1,650	10,800	10,300	6,000	11,000	32,000	13,800	13,900	12,100	10,800	4,740	2,460
16	3,400	8,270	7,620	9,600	12,500	30,400	15,000	18,600	10,200	8,920	2,700	1,670
17	2,800	7,230	6,400	8,500	11,500	42,700	19,400	18,200	20,200	7,870	3,910	3,540
18	3,570	5,300	6,600	7,000	7,500	66,100	24,400	18,600	26,000	7,740	1,660	5,470
19	4,720	4,230	8,410	7,400	8,500	53,400	26,300	17,900	19,700	5,750	1,470	6,760
20	3,980	8,800	10,300	13,500	9,500	44,600	25,100	16,300	15,300	7,540	2,660	8,300
21	2,570	12,400	9,910	16,500	10,500	38,700	22,000	30,200	14,900	6,190	2,580	8,600
22	1,860	10,300	10,000	14,000	10,500	32,500	22,900	45,000	13,100	2,980	2,700	3,540
23	1,740	6,110	10,100	27,000	10,000	19,100	25,300	41,900	15,100	4,440	3,100	6,160
24	2,730	5,970	9,100	37,000	8,500	21,100	27,600	33,400	15,100	3,920	2,820	7,850
25	2,940	6,930	8,070	32,000	6,280	22,300	25,100	24,700	10,600	4,100	1,680	7,930
26	2,920	11,900	8,080	25,000	6,690	24,100	21,900	21,200	8,240	3,640	1,580	6,000
27	2,760	22,200	8,240	21,000	10,000	30,700	18,000	17,700	11,100	5,480	2,530	5,930
28	1,630	19,300	6,310	18,000	8,790	23,200	19,800	14,300	9,590	4,520	3,190	4,260
29	2,810	18,800	7,670	14,000	------	19,600	20,400	16,100	13,400	2,890	4,240	3,680
30	6,330	14,800	7,310	12,500	------	17,300	18,000	17,600	44,900	4,430	6,290	1,860
31	5,800	------	5,650	11,000	------	17,800	------	18,800	------	6,540	5,650	------
TOTAL	97,410	305,200	324,870	408,140	349,960	748,360	727,600	612,200	431,930	586,720	117,460	123,940
MEAN	3,142	10,170	10,480	13,170	12,500	24,140	24,250	19,750	14,400	18,930	3,789	4,131
MAX	6,400	22,200	22,100	37,000	29,000	66,100	48,400	45,000	44,900	83,600	8,140	8,600
MIN	1,600	4,220	5,650	5,200	6,280	5,320	13,800	10,700	4,990	2,890	1,440	1,420
MEAN†	3,370	10,530	9,818	12,440	10,620	24,140	26,630	20,580	15,690	17,750	3,529	3,828
CFSM†	.61	1.92	1.79	2.26	1.93	4.39	4.85	3.75	2.86	3.23	.64	.70
IN†	.71	2.14	2.06	2.61	2.01	5.07	5.41	4.32	3.19	3.73	.74	.78

CAL YR 1972 TOTAL 3,879,305 MEAN 10,600 MAX 70,100 MIN 305 MEAN† 10,670 CFSM† 1.94 IN† 26.45
WTR YR 1973 TOTAL 4,833,790 MEAN 13,240 MAX 83,600 MIN 1,420 MEAN† 13,260 CFSM† 2.41 IN† 32.77

PEAK DISCHARGE (BASE, 44,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0015	19.76	48,600				
3-18	1130	24.47	68,800				
4-3	0845	19.97	49,500				
5-22	1945	19.41	47,200				
7-1	0415	28.68	88,600				

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to North Springfield Reservoir on Black River listed on page 215.

01155000 Cold River at Drewsville, N.H.

LOCATION.--Lat 43°07'54", long 72°23'23", Cheshire County, on left bank 50 ft (15 m) upstream from bridge on State Highway 123 at Drewsville, 1.0 mi (1.6 km) upstream from Great Brook, 2.7 mi (4.3 km) east of Bellows Falls, Vt., and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--82.7 mi² (214.2 km²).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 115 ft³/s (3.257 m³/s), 18.88 in/yr (480 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,970 ft³/s (84.1 m³/s) Mar. 17 (gage height, 7.86 ft or 2.396 m); minimum, 11 ft³/s (0.31 m³/s) Oct. 6, 7.

Period of record: Maximum discharge (revised) 5,290 ft³/s (150 m³/s) Nov. 26, 1950 (gage height, 10.29 ft or 3.136 m), from rating curve extended above 3,400 ft³/s (96.3 m³/s) on basis of computation of flow over dam at gage height 10.29 ft (3.136 m) and slope-area measurement at gage height 12.30 ft (3.749 m); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 23, 1940.

REVISIONS.--Figures of maximum discharge for the water years 1951 and 1969 have been revised to 5,290 ft³/s (150 m³/s) Nov. 26, 1950 (gage height, 10.29 ft or 3.136 m) and 3,910 ft³/s (111 m³/s) Apr. 10, 1969 (gage height, 8.75 ft or 2.667 m), superseding figures published in WSP 1201, 1721, and WRD Mass., N.H., R.I., Vt. 1969.

REMARKS.--Records excellent except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by sawmill above station; fluctuation more frequent prior to 1945.

REVISIONS (WATER YEARS).--WSP 1431: 1952(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	24	270	365	120	65	294	143	289	745	24	78
2	20	29	230	395	225	70	898	133	197	328	750	42
3	16	147	210	279	1,150	74	619	132	159	195	632	32
4	14	85	185	226	660	86	447	152	137	157	236	27
5	13	64	170	199	429	120	462	133	171	320	127	25
6	12	64	225	130	294	133	440	122	232	269	85	30
7	28	62	750	100	261	127	436	111	168	164	66	40
8	104	82	416	90	225	240	400	101	127	118	54	29
9	75	402	379	84	182	340	323	126	101	93	45	25
10	45	243	329	92	148	320	323	158	85	84	40	25
11	35	150	284	100	142	285	315	304	73	67	93	24
12	29	132	201	94	125	423	269	287	65	57	67	21
13	26	109	232	90	131	670	244	228	80	49	51	21
14	24	131	203	88	127	544	236	181	93	47	42	19
15	24	150	165	92	131	419	254	157	71	46	42	20
16	25	122	164	90	125	492	299	248	74	47	70	21
17	24	105	132	90	101	1,510	331	214	89	41	56	19
18	22	97	121	110	96	1,580	304	179	64	36	46	23
19	19	94	139	170	100	650	267	197	67	33	40	37
20	18	533	136	567	112	436	221	175	58	30	34	26
21	17	412	120	436	102	326	189	646	51	31	30	23
22	17	240	121	359	103	276	173	745	49	33	26	22
23	17	176	121	883	98	246	165	447	53	28	25	47
24	17	158	115	691	91	236	151	302	47	27	23	47
25	17	135	112	446	88	248	136	234	44	27	21	41
26	17	741	111	332	70	387	126	195	40	27	20	34
27	17	820	112	263	62	436	134	171	36	30	21	29
28	17	487	108	229	58	337	221	161	61	30	22	26
29	24	450	86	185	------	285	210	189	118	27	21	24
30	31	350	91	150	------	256	165	164	933	25	19	22
31	29	------	122	130	------	256	------	351	------	24	79	------
TOTAL	820	6,794	6,160	7,555	5,548	11,873	9,052	7,088	3,832	3,235	2,907	899
MEAN	26.5	226	199	244	198	383	302	229	128	104	93.8	30.0
MAX	104	820	750	883	1,150	1,580	898	745	933	745	750	78
MIN	12	24	86	84	58	65	126	101	36	24	19	19
CFSM	.32	2.73	2.41	2.95	2.39	4.63	3.65	2.77	1.55	1.26	1.13	.36
IN.	.37	3.06	2.77	3.40	2.50	5.34	4.07	3.19	1.72	1.46	1.31	.40

CAL YR 1972 TOTAL 62,226.8 MEAN 170 MAX 1,500 MIN 8.9 CFSM 2.06 IN 27.99
WTR YR 1973 TOTAL 65,763.0 MEAN 180 MAX 1,580 MIN 12 CFSM 2.18 IN 29.58

PEAK DISCHARGE (BASE, 1,100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1800	6.58	1,630	3-17	2030	7.86	2,970
1-23	0800	5.94	1,180	6-30	1800	6.61	1,660
2-3	0600	6.32	1,440	8-2	1700	7.49	2,530

01155200 Sacketts Brook near Putney, Vt.

LOCATION.--Lat 42°59'57", long 72°31'59", Windham County, on left bank 50 ft (15 m) upstream from highway bridge on Saxtons River Road and 1.8 mi (2.9 km) north of Putney.
DRAINAGE AREA.--10.0 mi² (25.9 km²).
PERIOD OF RECORD.--March 1963 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m) from topographic map.
AVERAGE DISCHARGE.--10 years, 15.7 ft³/s (0.445 m³/s), 21.32 in/yr (542 mm/yr).
EXTREMES.--Current year: Maximum discharge, 903 ft³/s (25.6 m³/s) June 30 (gage height, 8.13 ft or 2.478 m), from rating curve extended above 460 ft³/s (13.0 m³/s); minimum, 2.4 ft³/s (0.068 m³/s) Sept. 17.

Period of record: Maximum discharge, 903 ft³/s (25.6 m³/s) June 30, 1973 (gage height, 8.13 ft or 2.478 m); minimum, 0.63 ft³/s (0.018 m³/s) Sept. 20, 21, 1964.

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in WRD Mass., N.H., R.I., Vt., 1968-72.

Water year	Date	Discharge (ft³/s)	Gage height (feet)
1968	Apr. 25, 1968	380	5.57
1969	July 29, 1969	633	6.89
1970	Apr. 2, 1970	407	5.72
1971	Aug. 28, 1971	218	4.60
1972	Apr. 19, 1972	260	4.87

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since April 1964 (no winter records).
REVISIONS.--The figures of peak discharge for the water years 1968-71 have been revised as shown in the following table. They supersede figures published in WRD Mass., N.H., R.I., Vt., 1968-71.

REVISED PEAK DISCHARGE.--1968: Mar. 23 (1615) 251 ft³/s (4.81 ft); Apr. 25 (0245) 380 ft³/s (5.57 ft).
1969: Apr. 10 (1945) 341 ft³/s (5.35 ft); Apr. 19 (0445) 254 ft³/s (4.83 ft); Apr. 23 (0315) 247 ft³/s (4.79 ft); June 15 (1530) 517 ft³/s (6.31 ft); July 29 (0545) 633 ft³/s (6.89 ft).
1970: Nov. 20 (0445) 233 ft³/s (4.70 ft); Dec. 11 (0815) 255 ft³/s (4.84 ft); Apr. 2 (1800) 407 ft³/s (5.72 ft); Apr. 9 (1615) 229 ft³/s (4.67 ft); Apr. 24 (1745) 223 ft³/s (4.63 ft).
1971: Apr. 12 (1715) 197 ft³/s (4.41 ft); Aug. 28 (1045) 224 ft³/s (4.60 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.1	33	40	15	12	52	29	28	73	7.8	3.9
2	3.0	6.4	26	33	30	13	152	27	25	52	66	3.9
3	3.0	13	28	28	95	14	74	29	22	38	20	3.6
4	3.0	6.7	25	25	57	18	69	29	20	64	12	3.6
5	2.7	6.4	25	23	50	22	81	25	20	72	10	3.6
6	2.7	6.7	42	17	41	20	73	23	18	45	8.7	3.9
7	18	6.7	48	13	33	18	62	21	17	35	7.8	3.9
8	9.2	15	33	11	29	35	55	20	14	30	7.3	3.6
9	5.1	27	35	13	26	40	47	31	13	26	6.9	3.3
10	3.9	13	40	14	23	37	55	29	12	22	6.0	3.3
11	3.6	9.7	35	14	21	35	52	52	11	23	6.9	3.3
12	3.4	9.7	27	13	19	60	47	33	11	19	7.3	3.3
13	3.9	7.9	30	13	21	83	45	29	16	18	6.4	3.0
14	3.9	11	26	13	23	64	44	25	13	16	5.5	3.3
15	3.9	15	23	14	22	64	45	23	10	16	6.9	3.6
16	3.9	12	20	15	21	83	42	54	11	16	8.3	3.3
17	3.9	11	18	16	20	268	38	33	11	14	6.4	3.0
18	3.4	9.7	17	17	17	160	36	55	9.2	14	5.5	3.9
19	3.4	9.7	20	22	20	70	33	45	9.2	13	5.2	3.9
20	3.4	44	19	55	19	54	29	40	8.7	12	5.5	3.3
21	3.4	24	18	40	18	42	28	109	8.2	14	5.2	3.3
22	3.4	17	18	35	17	37	26	59	11	12	5.2	3.3
23	3.4	15	17	60	16	35	25	46	9.7	11	5.2	3.9
24	3.4	14	17	45	15	34	22	43	9.2	10	4.6	3.6
25	3.4	13	17	38	14	40	21	39	9.2	9.2	4.9	3.6
26	3.4	108	17	32	13	77	23	35	8.7	9.2	4.2	3.3
27	3.4	50	17	29	12	58	28	32	9.2	12	5.2	3.3
28	3.4	38	16	26	12	49	70	32	14	11	4.6	3.3
29	7.1	36	15	23	------	46	41	38	56	9.6	4.6	3.0
30	6.1	31	17	20	------	42	32	32	247	8.7	4.2	3.0
31	4.4	------	25	17	------	40	------	39	------	8.3	3.6	------
TOTAL	135.3	590.7	764	774	719	1,670	1,447	1,155	681.3	733.0	267.9	104.1
MEAN	4.36	19.7	24.6	25.0	25.7	53.9	48.2	37.3	22.7	23.6	8.64	3.47
MAX	18	108	48	60	95	268	152	109	247	73	66	3.9
MIN	2.7	4.1	15	11	12	12	21	20	8.2	8.3	3.6	3.0
CFSM	.44	1.97	2.46	2.50	2.57	5.39	4.82	3.73	2.27	2.36	.86	.35
IN.	.50	2.20	2.84	2.88	2.67	6.21	5.38	4.30	2.53	2.73	1.00	.39

CAL YR 1972 TOTAL 8,050.7 MEAN 22.0 MAX 184 MIN 2.7 CFSM 2.20 IN 29.95
WTR YR 1973 TOTAL 9,041.3 MEAN 24.8 MAX 268 MIN 2.7 CFSM 2.48 IN 33.63

PEAK DISCHARGE (BASE, 210 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1330	5.04	288	5-21	0530	4.65	226
3-17	1845	7.15	688	6-30	1545	8.13	903
4-2	0230	5.12	301				

01155300 Flood Brook near Londonderry, Vt.

LOCATION.--Lat 43°14'11", long 72°51'23", Windham County, on left bank 20 ft (6 m) downstream from bridge on State Highway 11, 0.9 mi (1.4 km) upstream from Burnt Meadow Brook, and 2.5 mi (4.0 km) west of Londonderry.

DRAINAGE AREA.--9.25 mi² (23.96 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,300 ft (396 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 21.0 ft³/s (0.595 m³/s), 30.83 in/yr (783 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,800 ft³/s (51.0 m³/s) June 30 (gage height, 7.15 ft or 2.179 m), from rating curve extended as explained below; minimum, 0.77 ft³/s (0.022 m³/s) Sept. 12-14.

Period of record: Maximum discharge, 1,800 ft³/s (51.0 m³/s) June 30, 1973 (gage height, 7.15 ft or 2.179 m), from rating curve extended above 220 ft³/s (6.23 m³/s) on basis of culvert measurements at gage heights 6.33 ft and 7.15 ft (1.929 and 2.179 m); maximum gage height, 7.44 ft (2.268 m), from peak-stage indicator, Mar. 18, 1968 (ice jam); minimum disharge, 0.19 ft³/s (0.005 m³/s) Aug. 10-12, 1964.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation by small pond above station. Recording rain gage at station since April 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1972: 1964(M), 1966-67(M), 1968-69(P), 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	8.5	23	60	16	9.0	113	27	21	118	3.3	2.3
2	3.0	14	21	40	50	10	280	23	19	45	13	1.2
3	2.5	39	20	28	150	12	105	25	15	30	10	1.0
4	2.4	21	19	25	68	15	70	25	14	34	6.3	.89
5	2.2	18	18	22	43	25	80	21	13	88	4.6	.89
6	2.1	15	107	16	30	20	54	21	12	40	3.9	1.1
7	53	16	130	13	27	19	44	18	11	26	3.1	1.4
8	40	47	60	11	23	40	47	16	8.8	19	3.5	1.1
9	15	125	40	12	20	60	38	21	7.3	18	2.9	.92
10	9.9	50	37	14	19	46	34	26	6.2	10	2.5	.86
11	8.0	34	33	13	18	41	31	67	5.4	6.9	3.8	.83
12	7.0	31	29	12	17	98	27	45	5.0	6.0	4.8	.80
13	7.5	27	35	12	16	130	23	38	6.8	5.4	3.8	.77
14	6.8	24	29	14	16	78	24	28	6.0	13	2.6	.89
15	14	22	24	15	16	55	30	24	4.5	10	3.3	1.4
16	11	17	20	13	15	93	55	47	5.2	9.7	5.8	1.3
17	8.5	15	18	13	15	361	115	31	9.4	7.4	3.8	1.2
18	7.3	15	17	16	14	216	145	69	5.8	6.7	2.9	3.6
19	6.6	16	20	60	15	77	137	90	5.4	5.8	2.5	4.2
20	6.2	54	19	100	16	50	89	61	4.5	5.3	2.4	1.8
21	6.0	38	18	50	15	40	70	197	4.0	5.4	2.4	1.4
22	6.0	22	18	35	14	31	72	174	3.7	5.6	2.3	2.5
23	6.0	19	17	120	13	28	68	68	3.7	4.4	2.2	7.6
24	6.0	18	16	60	12	27	46	44	30	3.9	2.1	3.5
25	5.8	17	15	43	11	31	33	33	31	3.6	1.9	4.4
26	5.2	93	15	35	10	76	28	27	12	3.3	1.9	2.5
27	5.0	74	15	31	9.6	69	31	22	8.5	6.9	2.0	2.0
28	4.8	44	14	27	9.3	54	62	28	7.7	5.6	2.2	1.5
29	15	34	13	24	------	48	46	45	15	4.2	2.3	1.3
30	16	25	15	21	------	42	33	28	596	3.9	1.5	1.2
31	11	------	22	18	------	61	------	29	------	3.5	1.1	------
TOTAL	303.8	992.5	897	973	697.9	1,962.0	2,030	1,418	897.1	554.5	110.7	56.35
MEAN	9.80	33.1	28.9	31.4	24.9	63.3	67.7	45.7	29.9	17.9	3.57	1.88
MAX	53	125	130	120	150	361	280	197	596	118	13	7.6
MIN	2.1	8.5	13	11	9.3	9.0	23	16	3.7	3.3	1.1	.77
CFSM	1.06	3.58	3.12	3.39	2.69	6.84	7.32	4.94	3.23	1.94	.39	.20
IN.	1.22	3.99	3.61	3.91	2.81	7.89	8.16	5.70	3.61	2.23	.45	.23

CAL YR 1972 TOTAL 10,642.90 MEAN 29.1 MAX 297 MIN 1.5 CFSM 3.15 IN 42.80
WTR YR 1973 TOTAL 10,892.85 MEAN 29.8 MAX 596 MIN .77 CFSM 3.22 IN 43.81

PEAK DISCHARGE (BASE, 300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1915	5.23	464	4-2	0345	5.32	500
2-3	-	-	†500	5-21	0830	4.86	331
3-17	1645	5.57	611	6-30	0845	7.15	1,800

†About.

01155500 West River at Jamaica, Vt.

LOCATION.--Lat 43°06'32", long 72°46'33", Windham County, on left bank 0.2 mi (0.3 km) upstream from highway bridge at Jamaica, 0.4 mi (0.6 km) upstream from Ball Mountain Brook, and 2.8 mi (4.5 km) downstream from Ball Mountain Dam, and at mile 26.2 (kilometre 42.2).

DRAINAGE AREA.--179 mi^2 (464 km^2).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m) from topographic map.

AVERAGE DISCHARGE.--27 years, 351 ft^3/s (9.940 m^3/s), 26.63 in/yr (676 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,550 ft^3/s (101 m^3/s) July 5 (gage height, 8.58 ft or 2.615 m); minimum, 20 ft^3/s (0.57 m^3/s) Sept. 24; minimum daily, 23 ft^3/s (0.65 m^3/s) Sept. 24.

Period of record: Maximum discharge, 29,500 ft^3/s (835 m^3/s) Dec. 31, 1948 (gage height, 14.87 ft or 4.532 m), from rating curve extended above 9,800 ft^3/s (278 m^3/s), verified by slope-area measurement of peak flow; minimum, 0.94 ft^3/s (0.027 m^3/s) Sept. 23-25, 1968; minimum daily, 0.94 ft^3/s (0.027 m^3/s) Sept. 23, 24, 1968. Maximum discharge since construction of Ball Mountain Dam in 1961, 5,020 ft^3/s (142 m^3/s) Apr. 24, 1962 (gage height, 8.75 ft or 2.667 m); maximum gage height, 9.46 ft (2.883 m) Feb. 4, 1970 (ice jam).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Ball Mountain Reservoir since 1961 (see p. 215).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	142	456	669	300	170	1,220	594	438	1,150	46	25
2	30	139	436	1,130	550	170	2,670	406	305	2,070	92	25
3	30	738	391	803	1,330	180	3,100	278	206	2,710	150	25
4	30	465	390	499	1,640	270	1,770	225	176	3,150	106	25
5	30	334	376	452	1,770	472	1,510	228	176	3,430	63	25
6	30	300	438	300	1,080	534	1,250	228	176	3,250	49	25
7	92	311	1,560	200	504	374	1,030	232	176	3,050	48	25
8	821	378	1,720	180	565	581	998	196	162	2,350	48	25
9	547	1,870	1,110	190	440	1,510	762	162	121	1,740	48	25
10	227	1,630	1,100	200	290	1,340	677	271	120	899	48	25
11	92	798	878	220	270	898	629	287	81	212	49	25
12	112	521	561	220	250	1,280	570	837	53	72	49	25
13	109	482	593	200	240	2,220	440	1,160	56	27	49	25
14	400	446	655	180	250	1,700	475	819	56	44	48	25
15	496	556	478	190	270	1,120	515	900	95	129	49	25
16	538	461	368	200	250	1,320	672	1,070	100	177	49	25
17	252	321	346	190	220	1,950	1,280	846	83	174	48	25
18	116	379	340	350	210	2,550	1,800	797	125	113	48	26
19	99	304	372	600	210	2,620	1,700	1,200	150	73	47	25
20	89	574	358	1,400	240	2,710	1,310	1,170	93	73	47	25
21	80	1,150	323	1,700	230	2,180	933	1,860	57	72	47	26
22	78	744	292	1,330	230	1,540	779	2,790	74	72	46	26
23	79	421	292	1,850	210	998	836	2,260	86	71	46	27
24	79	313	276	1,850	200	671	752	1,210	86	57	46	23
25	82	345	273	1,010	185	542	460	1,120	473	47	45	27
26	88	810	274	721	180	991	366	787	604	47	45	27
27	76	2,000	275	555	170	1,430	388	516	407	48	45	27
28	70	1,480	255	498	170	1,060	465	436	296	47	45	27
29	142	840	206	402	------	833	510	455	434	47	45	27
30	296	594	225	350	------	674	618	534	1,220	47	44	27
31	189	------	301	330	------	731	------	525	------	46	34	------
TOTAL	5,429	19,846	15,918	18,969	12,454	35,619	30,485	24,399	6,681	25,494	1,669	765
MEAN	175	662	513	612	445	1,149	1,016	787	223	822	53.8	25.5
MAX	821	2,000	1,720	1,850	1,770	2,710	3,100	2,790	1,220	3,430	150	27
MIN	30	139	206	180	170	170	366	162	53	27	34	23
MEAN†	146	665	515	612	446	1,146	1,048	786	582	475	41.0	35.3
CFSM†	.82	3.72	2.88	3.42	2.49	6.40	5.85	4.39	3.25	2.65	.23	.20
IN†	.94	4.15	3.32	3.94	2.59	7.38	6.54	5.07	3.63	3.06	.26	.22

CAL YR 1972 TOTAL 184,991 MEAN 505 MAX 4,030 MIN 28 MEAN† 505 CFSM† 2.82 IN† 38.44
WTR YR 1973 TOTAL 197,728 MEAN 542 MAX 3,430 MIN 23 MEAN† 542 CFSM† 3.03 IN† 41.10

† Adjusted for change in contents in Ball Mountain Reservoir.

01156000 West River at Newfane, Vt.

LOCATION.--Lat 42°59'43", long 72°38'13", Windham County, on left bank 400 ft (100 m) downstream from highway bridge, 1.0 mi (1.6 km) northeast of Newfane, and at mile 12.7 (kilometre 20.4).

DRAINAGE AREA.--308 mi² (798 km²).

PERIOD OF RECORD.--September 1919 to September 1923, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 384.21 ft (117.107 m) above mean sea level. Prior to June 27, 1931, nonrecording gage at site 600 ft (200 m) upstream and June 27, 1931, to Aug. 21, 1972, water-stage recorder on right bank 600 ft (200 m) downstream from highway bridge at same datum.

AVERAGE DISCHARGE.--49 years, 612 ft³/s (17.33 m³/s), 26.98 in/yr (685 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,450 ft³/s (183 m³/s) Mar. 20 (gage height, 8.71 ft or 2.655 m); minimum, 23 ft³/s (0.65 m³/s) Aug. 30; minimum daily, 24 ft³/s (0.68 m³/s) Sept. 9-11.

Period of record: Maximum discharge, 52,300 ft³/s (1,480 m³/s) Sept. 21, 1938 (gage height, 22.81 ft or 6.952 m, from floodmarks), from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of contracted-opening measurement at gage height 19.3 ft (5.88 m) and slope-area measurements at gage heights 19.46 and 22.81 ft (5.931 and 6.952 m); minimum, 7.6 ft³/s (0.22 m³/s) Aug. 24, 25, 26, 1962; minimum daily, 8.2 ft³/s (0.23 m³/s) Aug. 25, 1962. Maximum discharge since construction of Ball Mountain and Townshend Reservoirs in 1961, 9,410 ft³/s (266 m³/s) Apr. 10, 1969 (gage height, 9.77 ft or 2.978 m).

Maximum discharge since at least 1869, that of Sept. 21, 1938. Flood of Nov. 3, 1927, reached a discharge of 45,000 ft³/s or 1,270 m³/s (gage height, 23.0 ft or 7.01 m, from floodmarks, at nonrecording-gage site), from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of computation of peak flow over dam at West Dummerston, about 5 mi (8 km) downstream, adjusted for flow from intervening area.

REMARKS.--Records excellent above 200 cfs and good below except those for winter period, which are fair. Flow regulated since 1961 by Ball Mountain Reservoir and Townshend Reservoir 6.8 mi (10.9 km) upstream (see p. 215).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1231: 1922-23, 1929-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	247	943	1,100	898	297	1,890	1,070	759	1,590	180	56
2	41	219	810	1,960	758	291	4,400	793	586	1,980	150	54
3	39	461	753	1,560	3,210	296	5,850	667	367	3,050	333	54
4	39	833	703	977	2,780	338	4,140	598	326	4,260	238	56
5	41	537	672	878	2,780	568	3,800	632	333	4,960	140	52
6	40	446	742	655	1,880	703	2,670	514	328	4,720	105	52
7	165	452	2,790	370	1,060	652	2,010	479	323	4,570	92	47
8	1,130	575	2,960	350	1,010	990	1,850	445	301	4,390	86	25
9	822	2,950	1,610	380	835	2,400	1,540	403	267	4,050	86	24
10	427	2,630	1,840	400	564	2,430	1,330	518	223	3,720	83	24
11	191	1,330	1,500	420	480	1,660	1,280	965	205	766	86	24
12	161	890	1,060	420	450	2,160	981	1,350	143	187	105	25
13	178	786	1,030	410	420	4,160	949	1,580	135	169	101	25
14	398	717	1,200	420	440	3,430	839	1,060	143	143	92	27
15	484	761	880	420	490	2,110	955	1,220	130	165	86	59
16	620	617	651	450	490	2,680	1,160	1,700	173	262	101	59
17	458	667	558	410	340	4,560	2,110	1,510	173	262	109	59
18	210	643	567	430	350	4,400	2,990	1,530	169	247	92	59
19	173	640	579	800	350	3,970	2,840	2,710	200	161	86	49
20	156	1,090	601	2,120	421	5,420	2,320	2,050	200	130	86	49
21	135	1,780	557	2,230	434	4,860	1,440	3,840	130	125	83	49
22	128	1,140	687	1,850	383	2,650	1,400	4,680	125	125	80	45
23	128	719	491	3,220	369	1,570	1,260	4,460	125	125	74	47
24	128	536	491	3,510	340	1,220	1,280	2,110	125	110	71	47
25	128	553	485	1,980	312	1,030	918	1,600	235	100	71	47
26	131	1,830	486	1,420	312	1,650	661	1,430	735	100	71	47
27	128	3,700	479	1,050	298	2,550	715	816	479	100	71	47
28	116	2,540	456	940	288	1,980	1,320	816	487	100	156	47
29	148	1,510	403	755	-------	1,430	1,290	771	625	100	238	49
30	384	1,190	398	636	-------	1,250	1,070	839	3,270	100	36	49
31	317	-------	477	550	-------	1,220	-------	862	-------	100	54	-------
TOTAL	7,686	32,777	27,916	33,131	22,387	65,013	56,838	43,872	11,809	40,947	3,360	1,349
MEAN	248	1,093	901	1,069	800	2,097	1,895	1,415	394	1,321	108	45.0
MAX	1,130	3,700	2,960	3,510	3,210	5,420	5,850	4,680	3,270	4,960	333	59
MIN	39	219	398	350	288	291	661	403	125	100	36	24
MEAN†	222	1,098	900	1,068	800	2,095	1,928	1,413	865	864	88.9	56.3
CFSM†	.72	3.56	2.92	3.47	2.60	6.80	6.26	4.59	2.81	2.81	.29	.18
IN†	.83	3.98	3.37	4.00	2.71	7.85	6.98	5.29	3.13	3.24	.33	.20

CAL YR 1972 TOTAL 323,351 MEAN 883 MAX 6,370 MIN 39 MEAN† 883 CFSM† 2.87 IN† 39.05
WTR YR 1973 TOTAL 347,085 MEAN 951 MAX 5,850 MIN 24 MEAN† 951 CFSM† 3.09 IN† 41.91

† Adjusted for change in contents in Ball Mountain and Townshend Reservoirs.

01156500 Connecticut River at Vernon, Vt.

LOCATION.--Lat 42°46'10", long 72°30'50", Windham County, on right bank just downstream from Vernon Dam at Vernon, 2 mi (3 km) upstream from Ashuelot River, and at mile 141.9 (kilometre 228.3).

DRAINAGE AREA.--6,266 mi^2 (16,229 km^2).

PERIOD OF RECORD.--February to April 1936 (in WSP 798), September and October 1938 (in WSP 867), October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level; prior to Jan. 20, 1948, datum was 94.13 ft (28.691 m) higher.

AVERAGE DISCHARGE.--29 years (1944-73) 10,330 ft^3/s (292.5 m^3/s), 22.39 in/yr (569 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, about 102,000 ft^3/s (2,890 m^3/s) July 1; minimum daily, 1,400 ft^3/s (39.6 m^3/s) Oct. 23.
Period of record: Maximum discharge, 176,000 ft^3/s (4,980 m^3/s) Mar. 19, 20, 1936 (gage height, 128.8 ft or 39.26 m, datum then in use), from rating curve extended above 86,000 ft^3/s (2,440 m^3/s); minimum daily, 99 ft^3/s (2.80 m^3/s) Oct. 8, 1944.
Flood of Mar. 19, 20, 1936, is greatest since at least 1750, from historical data and information by local residents.

REMARKS.--Records fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 215), and other reservoirs (combined usable capacity, about 29,000,000,000 ft^3 or 821,000,000 m^3).

REVISIONS.--WSP 1031: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	5,430	16,500	9,400	11,000	8,500	21,000	19,100	20,000	93,000	6,300	3,700
2	2,600	5,630	14,000	13,000	12,000	9,000	41,700	19,800	20,000	81,000	9,000	1,450
3	2,000	6,600	12,000	15,500	25,000	8,000	57,900	19,600	19,000	70,600	11,500	1,450
4	1,800	7,800	8,600	15,000	30,000	6,000	53,500	16,900	14,200	59,000	3,600	5,200
5	2,400	4,850	9,500	14,500	28,000	7,000	45,100	17,200	10,000	58,700	1,450	5,600
6	1,600	7,860	11,000	12,000	25,000	8,400	39,100	17,000	13,500	45,600	4,000	2,300
7	5,740	7,800	23,000	8,600	22,000	11,000	36,200	14,700	14,500	34,200	4,200	3,700
8	7,080	8,400	22,000	6,200	19,000	13,000	30,800	13,000	14,000	32,700	4,400	2,600
9	5,830	18,000	16,500	5,600	16,500	19,000	25,500	12,500	11,000	27,200	5,300	1,800
10	5,170	20,000	18,500	8,000	14,000	23,200	23,600	12,500	6,000	18,000	5,800	2,400
11	4,170	19,000	16,000	11,000	13,000	21,500	23,500	20,000	7,500	17,000	5,200	3,200
12	2,300	13,000	14,000	8,800	10,000	24,000	20,500	22,000	8,500	11,500	2,500	3,000
13	5,000	10,500	13,000	9,500	10,000	36,300	18,700	20,600	12,000	12,500	5,300	2,300
14	3,100	11,500	14,500	6,500	11,000	49,800	17,700	16,600	13,500	9,000	4,000	3,900
15	2,400	12,500	12,500	7,200	13,000	37,900	16,500	15,500	12,000	11,000	4,500	2,200
16	4,810	8,800	9,000	8,300	12,000	36,000	16,400	19,000	12,000	9,000	3,500	1,450
17	3,200	8,800	7,400	9,600	12,000	47,900	19,500	20,000	16,700	9,300	3,250	3,600
18	4,000	6,000	8,100	9,400	10,000	76,100	25,200	20,000	25,600	8,400	2,400	6,000
19	5,360	5,000	8,100	8,000	9,500	67,700	29,200	21,000	19,500	5,600	2,100	7,000
20	3,910	10,500	11,500	15,000	10,500	56,000	28,000	18,500	15,000	7,600	2,900	7,300
21	2,580	15,500	11,500	20,000	10,500	48,400	24,300	31,200	15,500	8,500	2,600	8,600
22	2,600	13,000	11,000	17,500	11,000	39,200	23,300	48,400	13,000	2,500	3,500	4,200
23	1,400	8,200	11,000	25,500	10,500	30,300	25,100	52,600	14,000	5,000	3,500	6,000
24	2,400	7,400	11,000	32,000	10,000	20,700	28,900	40,700	15,000	4,000	3,200	6,800
25	3,300	7,900	9,300	34,000	6,000	24,300	26,700	29,500	12,000	4,100	1,450	8,400
26	2,900	15,500	9,900	27,000	9,200	25,600	23,800	24,000	9,500	3,900	1,450	6,800
27	2,800	27,000	9,100	23,000	9,200	34,600	21,100	22,000	10,500	6,000	3,300	5,000
28	2,000	23,000	9,200	18,500	9,400	30,400	20,300	17,900	11,000	5,300	3,100	4,700
29	3,200	22,000	8,400	16,000	------	23,900	22,900	17,000	15,000	3,000	4,200	4,000
30	6,950	17,000	6,800	13,000	------	19,000	20,700	18,600	38,900	5,700	5,600	1,600
31	6,770	------	8,500	11,000	------	18,000	------	19,500	------	6,500	6,800	------
TOTAL	110,870	354,470	371,400	438,600	389,300	880,700	826,700	676,900	438,900	675,400	129,900	126,450
MEAN	3,576	11,820	11,980	14,150	13,900	28,410	27,560	21,840	14,630	21,790	4,190	4,215
MAX	7,080	27,000	23,000	34,000	30,000	76,100	57,900	52,600	38,900	93,000	11,500	8,600
MIN	1,400	4,850	6,800	5,600	6,000	6,000	16,400	12,500	6,000	2,500	1,450	1,450
MEAN†	3,778	12,180	11,320	13,430	12,030	28,410	29,970	22,670	16,400	20,150	3,911	3,923
CFSM†	.60	1.94	1.81	2.14	1.92	4.53	4.78	3.62	2.62	3.22	.62	.63
IN†	.70	2.17	2.08	2.47	2.00	5.23	5.34	4.17	2.92	3.71	.72	.70

CAL YR 1972 TOTAL 4,551,457 MEAN 12,440 MAX 75,900 MIN 727 MEAN† 12,510 CFSM† 2.00 IN† 27.18
WTR YR 1973 TOTAL 5,419,590 MEAN 14,850 MAX 93,000 MIN 1,400 MEAN† 14,860 CFSM† 2.37 IN† 32.20

PEAK DISCHARGE (BASE, 50,000 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1630	201.92	79,600				
4-3	2045	197.57	60,100				
5-23	0215	196.40	54,900				
7-1	*0800	-	*102,000				

* About.

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to reservoirs in West River basin listed on page 215.

NOTE.--No gage-height record July 1.

01157000 Ashuelot River near Gilsum, N.H.

LOCATION.--Lat 43°02'21", long 72°16'10", Cheshire County, on right bank 50 ft (15 m) downstream from White Brook, 60 ft (18 m) upstream from stone-arch bridge just off Keene-Newport road, 0.7 mi (1.1 km) downstream from Gilsum, and at mile 43.4 (kilometre 69.8).

DRAINAGE AREA.--71.1 mi² (184.1 km²).

PERIOD OF RECORD.--August 1922 to current year.

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1942. Datum of gage is 772.06 ft (235.568 m) above mean sea level (levels by Corps of Engineers); prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--51 years, 124 ft³/s (3.512 m³/s), 23.68 in/yr (601 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,050 ft³/s (58.1 m³/s) June 30 (gage height, 8.64 ft or 2.633 m); minimum, 5.2 ft³/s (0.15 m³/s) Oct. 6.

Period of record: Maximum discharge, 5,220 ft³/s (148 m³/s) Sept. 21, 1938 (gage height, 12.24 ft or 3.731 m in gage well, present datum), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of float measurements at gage heights 11.66 and 11.72 ft (3.554 and 3.572 m) and slope-area measurement at gage height 12.24 ft or 3.731 m (all at present datum); maximum gage height, 13.80 ft (4.206 m) present datum, Mar. 19, 1936; minimum discharge, about 1 ft³/s (0.028 m³/s) Oct. 6, 1922, July 10, 1923, Nov. 14, 1952.

Maximum discharge since at least 1855, that of Sept. 21, 1938.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Some regulation by reservoir above station. Prior to 1938, diurnal fluctuation caused by powerplant above station.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 781: 1936(M). WSP 1231: 1923-27(M), 1928, 1929-30(M), 1931, 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,740	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	1,000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	5.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	------	[illegible]	[illegible]	------	[illegible]	------	[illegible]	------	[illegible]	[illegible]	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1972 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, [illegible] ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	-	-	[illegible]				
[illegible]	-	-	[illegible]				
6-30	2030	8.64	2,050				

NOTE.--No gage-height record [illegible].

* About.

01158000 Ashuelot River below Surry Mountain Dam, near Keene, N.H.

LOCATION.--Lat 42°59'40", long 72°18'40", Cheshire County, on right bank 600 ft (200 m) downstream from Surry Mountain Dam, 2.5 mi (4.0 km) upstream from Sturtevant Brook, 4.5 mi (7.2 km) north of Keene, and at mile 34.0 (kilometre 54.7).

DRAINAGE AREA.--101 mi² (262 km²).

PERIOD OF RECORD.--September 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 480.00 ft (146.304 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--28 years, 169 ft³/s (4.786 m³/s), 22.72 in/yr (577 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,110 ft³/s (31.4 m³/s) Mar. 20 (gage height, 9.06 ft or 2.761 m); minimum daily, 9.7 ft³/s (0.27 m³/s) Sept. 26.

Period of record: Maximum discharge, 1,320 ft³/s (37.4 m³/s) Oct. 28, 1959 (gage height, 9.60 ft or 2.926 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Sept. 17, 1964.

REMARKS.--Records excellent. Flow regulated by Surry Mountain Lake (see p. 215).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	32	442	193	176	75	346	292	282	204	17	38
2	15	36	370	265	174	76	568	254	269	527	176	38
3	14	81	310	305	226	76	825	226	234	707	616	31
4	14	132	267	336	471	76	908	216	202	707	554	26
5	13	144	228	349	776	259	849	204	182	693	347	20
6	13	165	237	341	904	272	849	188	233	468	225	18
7	14	135	543	209	943	226	702	171	235	444	155	18
8	37	129	636	165	800	243	593	152	200	632	110	17
9	62	266	565	96	469	464	507	149	144	630	84	16
10	64	388	491	96	248	565	442	180	132	491	64	15
11	66	403	423	96	195	539	463	250	107	234	55	14
12	66	353	341	110	142	512	416	398	91	166	48	13
13	67	287	305	117	123	473	366	406	92	100	43	12
14	62	249	286	116	151	820	321	358	118	82	37	11
15	54	258	248	116	166	760	296	248	115	64	35	11
16	54	242	205	117	166	690	296	288	101	63	60	17
17	51	211	193	115	148	683	282	516	100	53	60	55
18	68	187	187	115	106	536	306	293	99	44	36	122
19	66	170	187	115	99	876	373	290	93	60	33	119
20	63	243	131	193	99	1,070	587	306	84	37	30	114
21	62	491	162	201	100	1,010	356	470	79	60	27	106
22	59	466	164	561	122	950	313	740	64	63	26	91
23	56	572	162	539	132	876	272	820	67	30	22	41
24	53	500	162	785	132	766	250	657	63	30	20	25
25	52	266	162	856	111	586	209	617	65	20	18	11
26	29	520	162	843	90	665	190	611	185	26	17	9.7
27	27	716	162	747	90	680	185	515	180	25	16	12
28	25	786	150	636	83	901	225	290	182	26	16	21
29	29	680	111	289	------	649	312	290	101	22	15	26
30	33	536	97	251	------	615	316	282	116	20	16	29
31	33	------	111	177	------	548	------	276	------	18	15	------
TOTAL	1,195	9,032	7,891	9,192	7,531	18,216	12,724	10,512	4,455	9,102	2,454	1,007.7
MEAN	38.6	301	255	297	269	588	424	339	148	294	79.2	33.6
MAX	67	786	636	856	904	1,070	908	820	616	707	616	122
MIN	13	32	97	96	83	75	185	149	63	18	15	9.7
MEAN†	39.1	317	260	297	265	626	420	338	172	107	84.0	21.0
CFSM†	.38	3.14	2.57	2.94	2.62	6.19	4.22	3.35	1.70	1.06	.83	.21
IN.†	.45	3.50	2.96	3.38	2.73	7.08	4.71	3.86	1.90	1.22	.96	.23

CAL YR 1972 TOTAL 85,930.5 MEAN 235 MAX 1,040 MIN 5.0 MEAN† 226 CFSM† 2.24 IN† 30.38
WTR YR 1973 TOTAL 89,861.7 MEAN 246 MAX 1,070 MIN 9.7 MEAN† 245 CFSM† 2.43 IN† 32.92

† Adjusted for change in contents in Surry Mountain Lake.

01158600 Otter Brook below Otter Brook Dam, near Keene, N.H.

LOCATION.--Lat 42°56'45", long 72°14'14", Cheshire County, on right bank 450 ft (150 m) downstream from Otter Brook Dam, 2 mi (3 km) northeast of Keene, 2.4 mi (3.9 km) upstream from Minnewawa Brook, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--47.2 mi² (122.2 km²).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 658.65 ft (200.757 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--15 years, 74.1 ft³/s (2.099 m³/s), 21.32 in/yr (542 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 624 ft³/s (17.7 m³/s) Mar. 20 (gage height, 8.51 ft or 2.594 m); minimum, 3.8 ft³/s (0.11 m³/s) Oct. 7; minimum daily, 4.3 ft³/s (0.12 m³/s) Oct. 6.

Period of record: Maximum discharge, 685 ft³/s (19.4 m³/s) Apr. 20, 1959 (gage height, 8.59 ft or 2.618 m); maximum gage height, 8.61 ft (2.624 m) Apr. 26, 1972; minimum discharge, 0.1 ft³/s (0.003 m³/s) Nov. 28, 1959; minimum daily, 0.3 ft³/s (0.008 m³/s) Sept. 27 to Oct. 2, Oct. 9, 10, 12-20, 1964.

REMARKS.--Records good. Flow regulated by Otter Brook Lake (see p. 215).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	18	177	126	98	39	190	78	140	114	15	5.5
2	5.3	16	147	210	97	39	402	63	114	304	92	5.4
3	5.6	62	121	178	75	39	531	57	94	456	294	5.4
4	5.5	58	107	156	183	53	443	59	78	469	147	7.8
5	4.8	48	99	118	326	73	296	59	80	466	80	9.4
6	4.3	44	124	85	364	108	322	59	112	402	52	8.9
7	4.7	44	224	65	347	106	317	59	116	283	39	11
8	37	46	297	56	326	100	303	42	133	90	32	11
9	26	179	344	57	307	226	207	65	95	66	28	11
10	18	192	236	58	181	204	212	87	77	54	25	9.7
11	18	107	185	58	105	283	227	138	64	152	22	8.3
12	12	88	186	58	76	276	190	158	57	109	21	7.6
13	13	70	106	48	66	323	156	137	99	75	20	6.8
14	12	80	110	42	66	402	140	113	140	61	17	6.6
15	12	95	120	43	86	411	132	97	88	49	16	6.6
16	12	82	106	58	76	370	133	119	73	48	19	6.5
17	11	70	91	59	67	314	190	120	72	41	20	6.1
18	10	64	91	55	66	96	253	107	65	36	18	6.6
19	9.7	58	90	55	65	377	150	153	59	32	16	9.5
20	8.9	160	76	71	65	402	173	122	51	28	14	8.8
21	8.3	196	66	157	65	570	103	254	68	34	13	7.5
22	8.1	139	66	206	64	520	103	445	61	57	11	6.9
23	8.6	161	66	256	57	512	96	417	39	42	9.8	11
24	9.0	96	66	287	92	195	77	309	43	32	8.5	12
25	9.1	77	66	287	94	127	64	166	80	27	7.5	12
26	8.9	198	63	282	66	186	62	138	64	23	7.1	11
27	8.6	358	57	225	60	563	87	128	96	22	6.9	9.2
28	8.3	357	57	156	60	219	106	112	119	26	6.6	8.1
29	12	331	57	130	------	182	127	104	125	21	6.6	7.1
30	17	206	52	109	------	157	92	100	247	18	6.1	6.6
31	16	------	49	88	------	145	------	176	------	17	5.6	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	37	358	344	287	364	[illegible]	531	445	247	[illegible]	294	12
MIN	4.3	16	49	42	60	39	62	42	39	17	5.6	5.4
MEAN‡	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM‡	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.‡	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1972 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN‡ [illegible] CFSM‡ [illegible] IN‡ [illegible]
WTR YR 1973 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN‡ [illegible] CFSM‡ [illegible] IN‡ [illegible]

‡ Adjusted for change in contents in Otter Brook Lake.

01159600 Beaver Brook near Keene, N.H.

LOCATION.--Lat 42°57'52", long 72°15'37", Cheshire County, on right bank 0.2 mi (0.3 km) downstream from bridge on State Highway 9 Bypass, 2.4 mi (3.9 km) northeast of Keene, and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--5.94 mi² (15.38 km²).

PERIOD OF RECORD.--August 1972 to November 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 730 ft (220 m) from topographic map.

EXTREMES.--August to September 1972: Maximum discharge, 11 ft³/s (0.31 m³/s) Aug. 28 (gage height, 2.88 ft or 0.878 m); minimum, 0.10 ft³/s (0.003 m³/s) Aug. 25-27, Sept. 8, 9.

Water year 1973: Maximum discharge, 147 ft³/s (4.16 m³/s) Mar. 18 (gage height, 4.71 ft or 1.436 m), from rating curve extended above 12 ft³/s (0.34 m³/s) on basis of slope-area measurement at gage height 6.5 ft (1.98 m); maximum gage height, 5.38 ft (1.640 m) Feb. 3 (ice jam); minimum discharge, 0.3 ft³/s (0.009 m³/s) Oct. 28, Sept. 14, 15.

October to November 1973: Maximum discharge, 12 ft³/s (0.34 m³/s) Oct. 31 (gage height, 2.92 ft or 0.890 m); minimum, 0.56 ft³/s (0.016 m³/s) Oct. 1-3.

Flood of Dec. 21, 1973, reached a stage of 6.5 ft or 1.98 m, from floodmarks (discharge, 678 ft³/s or 19.2 m³/s).

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1972

DAY	AUG	SEP
1		.59
2		.43
3		.37
4		.33
5		.27
6		.17
7		.13
8		.11
9		.11
10		.11
11		.11
12		.11
13		.30
14		.62
15		.49
16		.34
17		.30
18		.28
19		.34
20		.46
21		.37
22		.38
23		.35
24		.30
25	.10	.30
26	.10	.30
27	.61	.33
28	3.9	.33
29	2.6	.26
30	1.6	.50
31	.88	------
TOTAL		9.39
MEAN		.31
MAX		.62
MIN		.11
CFSM		.05
IN.		.06

PEAK DISCHARGE (BASE, [illegible] ft³/s).--No peak above base.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	1.1	13	16	13	5.2	15	8.2	14	59	1.0	.80
2	.55	1.8	12	20	12	5.3	44	7.2	11	27	31	.76
3	.55	6.4	10	19	60	5.7	41	7.0	8.7	16	68	.71
4	.55	7.5	8.9	15	50	7.5	28	8.4	8.1	12	25	.64
5	.55	5.9	8.3	12	37	12	32	8.3	13	12	12	.64
6	.56	5.2	11	12	26	15	35	7.3	20	13	7.4	.66
7	1.5	4.5	26	11	20	14	36	6.3	17	10	5.5	.68
8	1.7	4.7	22	9.1	18	33	29	5.8	15	7.5	4.4	.68
9	1.6	9.4	17	8.0	16	47	23	6.2	11	5.8	3.7	.65
10	1.5	9.6	15	7.5	15	38	26	9.1	8.4	4.7	3.0	.58
11	1.0	6.9	14	7.4	14	30	36	17	6.5	19	2.4	.50
12	.91	5.6	13	7.0	13	32	25	21	5.7	16	2.3	.46
13	1.0	4.9	12	6.5	12	49	20	16	13	9.0	2.3	.41
14	.86	5.4	12	6.1	11	46	17	12	24	7.0	2.0	.35
15	.77	7.5	10	5.7	10	36	15	9.8	14	5.7	1.8	.38
16	.73	7.3	9.7	5.4	9.9	39	14	13	9.9	5.2	2.9	.39
17	.73	5.7	9.5	5.3	9.2	64	13	15	9.3	5.1	3.1	.39
18	.64	4.9	9.3	5.5	9.2	105	12	12	8.6	4.1	2.7	.64
19	.64	4.4	8.3	6.9	9.5	46	11	12	7.5	3.4	2.2	.83
20	.55	16	7.2	29	9.1	31	10	11	6.1	3.1	1.6	.70
21	.45	24	6.7	37	8.5	23	9.2	30	5.4	2.7	1.4	.68
22	.51	15	6.3	30	8.2	20	8.6	41	4.8	4.0	1.2	.82
23	.48	9.7	6.3	46	7.9	17	7.9	26	4.5	4.8	1.0	1.2
24	.48	7.6	6.3	43	7.1	16	7.3	19	5.0	3.6	.87	1.2
25	.48	6.7	6.3	25	6.1	16	6.8	14	5.5	2.6	.75	1.1
26	.45	17	6.3	19	6.0	23	6.6	12	4.6	1.8	.64	.89
27	.42	34	6.3	16	5.8	31	7.2	11	4.2	1.4	.64	.83
28	.39	22	6.3	15	5.5	23	9.3	9.6	5.8	2.2	.63	.77
29	1.0	18	6.3	15	------	19	11	15	8.5	1.8	.55	.68
30	1.1	15	5.8	15	------	16	9.9	18	49	1.4	.51	.59
31	1.1	------	6.5	15	------	15	------	17	------	1.2	.62	------
TOTAL	24.38	293.7	317.6	490.4	429.0	879.7	565.8	425.2	328.1	272.1	193.11	20.61
MEAN	.79	9.79	10.2	15.8	15.3	28.4	18.9	13.7	10.9	8.78	6.23	.69
MAX	1.7	34	26	46	60	105	44	41	49	59	68	1.2
MIN	.39	1.1	5.8	5.3	5.5	5.2	6.6	5.8	4.2	1.2	.51	.35
CFSM	.13	1.65	1.72	2.66	2.58	4.78	3.18	2.31	1.84	1.48	1.05	.12
IN.	.15	1.84	1.99	3.07	2.69	5.51	3.54	2.66	2.05	1.70	1.21	.13

WTR YR 1973 TOTAL 4,239.70 MEAN 11.6 MAX 105 MIN .35 CFSM 1.95 IN 26.55

PEAK DISCHARGE (BASE, 65 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	1445	4.31	94				
3-18	0030	4.71	147				
7-1	0030	4.15	79				
8-3	0245	4.38	102				

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO NOVEMBER 1973

DAY	OCT	NOV	DAY	OCT
1	.56	11	16	1.8
2	.56	8.7	17	1.8
3	.82	6.2	18	1.8
4	.86	4.6	19	1.6
5	1.2	3.5	20	1.4
6	1.4	2.8	21	1.4
7	1.3	2.5	22	1.4
8	1.2	2.3	23	1.5
9	1.1	2.1	24	1.6
10	1.2	1.9	25	1.5
11	1.3	1.6	26	1.5
12	1.3	1.5	27	1.5
13	1.3	1.6	28	1.3
14	1.3		29	1.6
15	1.4		30	9.6
			31	11
			TOTAL	55.18
			MEAN	1.78
			MAX	11
			MIN	.56
			CFSM	.30
			IN.	.35

Peak discharge (base, 65 ft³/s).--No peak above base.

01160000 South Branch Ashuelot River at Webb, near Marlborough, N.H.

LOCATION.--Lat 42°52'20", long 72°12'51", Cheshire County, on right bank 15 ft (5 m) downstream from bridge, at Webb, 2.5 mi (4.0 km) south of Marlborough, and at mile 10.9 (kilometre 17.5).

DRAINAGE AREA.--36.0 mi² (93.2 km²).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only October 1920, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since July 18, 1938. Datum of gage is 667.11 ft (203.335 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--53 years, 58.7 ft³/s (1.662 m³/s), 22.14 in/yr (562 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,210 ft³/s (34.3 m³/s) Feb. 3 (gage height, 6.11 ft or 1.862 m); minimum, 3.9 ft³/s (0.11 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 5,960 ft³/s (169 m³/s) Sept. 21, 1938 (gage height, 7.89 ft or 2.405 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of contracted-opening and slope-area measurements of peak flow; maximum gage height, 9.70 ft (2.951 m) Mar. 12, 1936 (ice jam); practically no flow Mar. 22, 1931; minimum daily discharge, 0.4 ft³/s (0.011 m³/s) Sept. 15-17, 1926.

Maximum discharge known since at least 1869, that of Sept. 21, 1938.

REMARKS.--Records good except those for winter period, which are fair. Regulation at times prior to 1962 by powerplant and several small reservoirs above station; regulation greater prior to 1956. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 641: 1925(M). WSP 871: Drainage area. WSP 1231: 1921-24(M), 1926(M), 1929, 1933-34(M), 1939. WRD Mass., N.H., R.I., Vt., 1971: 1966(M), 1967-69.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	12	91	400	78	35	92	71	90	468	9.9	5.9
2	4.2	13	78	311	150	36	465	62	71	212	136	5.5
3	4.1	33	68	195	903	37	319	62	57	119	219	5.6
4	4.1	37	65	115	404	70	212	79	50	93	61	5.3
5	4.0	29	62	92	264	110	267	69	47	127	54	4.9
6	3.9	32	147	80	185	101	252	59	43	119	46	5.3
7	8.3	27	467	65	125	65	245	57	47	80	32	5.2
8	24	31	288	54	109	218	191	48	73	59	25	4.9
9	22	128	199	56	100	263	146	65	51	45	18	4.7
10	17	86	194	52	96	208	214	112	41	38	15	4.7
11	13	57	155	50	66	168	335	160	34	57	14	4.7
12	11	43	110	46	86	155	201	137	31	46	16	4.6
13	14	37	103	45	71	306	142	106	85	34	23	4.9
14	13	44	95	43	64	254	115	79	168	29	19	6.1
15	12	63	80	40	58	194	102	67	63	26	18	9.8
16	11	51	78	39	55	227	95	106	56	27	29	9.4
17	9.5	41	70	38	50	410	87	102	53	23	30	7.9
18	8.6	26	64	50	50	577	86	87	54	20	25	7.3
19	8.1	33	62	80	48	298	76	107	52	19	18	8.1
20	7.7	139	58	290	50	194	71	90	35	16	15	15
21	8.1	144	54	260	48	139	65	384	31	39	12	17
22	7.3	61	56	180	48	115	63	336	27	56	9.4	19
23	7.7	54	62	592	46	100	63	222	24	35	8.1	14
24	6.8	44	46	371	43	92	57	115	25	27	7.7	8.8
25	6.7	39	54	225	40	88	47	99	23	19	7.2	7.7
26	6.8	230	53	143	38	155	55	61	22	15	6.9	19
27	7.1	345	52	116	36	175	119	75	34	16	7.2	27
28	7.1	166	48	161	35	121	130	71	44	17	6.9	24
29	10	135	46	90	------	97	109	103	151	15	6.7	26
30	15	96	46	86	------	88	68	93	697	13	6.4	16
31	14	------	70	80	------	83	------	114	------	11	6.1	------
TOTAL	300.4	2,306	3,131	4,389	3,360	5,237	4,579	3,409	2,353	1,922	927.5	302.3
MEAN	9.69	76.9	101	141	120	169	153	110	78.4	62.0	29.9	10.1
MAX	24	345	467	592	903	577	465	384	697	468	219	27
MIN	3.9	12	46	38	35	35	47	48	22	11	6.1	4.6
CFSM	.27	2.14	2.81	3.92	3.33	4.69	4.25	3.06	2.18	1.72	.83	.28
IN.	.31	2.38	3.24	4.53	3.47	5.41	4.73	3.52	2.43	1.99	.96	.31

CAL YR 1972 TOTAL 29,700.0 MEAN 81.4 MAX 610 MIN 3.9 CFSM 2.26 IN 30.70
WTR YR 1973 TOTAL 32,216.2 MEAN 88.3 MAX 903 MIN 3.9 CFSM 2.45 IN 33.29

PEAK DISCHARGE (BASE, 500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	[illegible]	5.16	570	3-18	[illegible]	5.50	[illegible]
1-23	[illegible]	5.44	712	4-2	1230	5.30	[illegible]
2-3	[illegible]	6.11	1,210	6-30	[illegible]	5.96	[illegible]

01161000 Ashuelot River at Hinsdale, N.H.

LOCATION.--Lat 42°47'07", long 72°29'12", Cheshire County, on left bank 40 ft (12 m) upstream from highway bridge at Hinsdale, 0.2 mi (0.3 km) downstream from dam, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--420 mi² (1,088 km²).

PERIOD OF RECORD.--March 1907 to December 1911, July 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 201.32 ft (61.362 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 29, 1933, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--63 years, 656 ft³/s (18.58 m³/s), 21.21 in/yr (539 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,880 ft³/s (167 m³/s) Mar. 18 (gage height, 7.84 ft or 2.390 m); minimum, 74 ft³/s (2.10 m³/s) Sept. 15; minimum daily, 90 ft³/s (2.55 m³/s) Oct. 4, 5.

Period of record: Maximum discharge, 16,600 ft³/s (470 m³/s) Mar. 19, 1936, by computation of peak flow over dam; maximum gage height, 20.2 ft (6.16 m) Mar. 19, 1936, from floodmarks (backwater from Connecticut River); minimum discharge, 10 ft³/s (0.28 m³/s) Sept. 9, 1953; minimum daily, 12 ft³/s (0.34 m³/s) Sept. 15, 1929.

Maximum discharge since at least 1859, that of Mar. 19, 1936.

REMARKS.--Records good. Flow regulated by Surry Mountain Lake 33 mi (53 km) upstream since 1942 and by Otter Brook Lake 29 mi (47 km) upstream since 1958 (see p. 215). Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1952.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 781: 1907-10, 1914-34. WSP 1301: 1915(M), 1917-19(M), 1921-33(M). WSP 1701: 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	197	1,700	1,390	980	503	1,410	1,180	1,340	3,030	146	137
2	96	190	1,470	2,110	1,060	496	2,790	1,030	1,180	2,520	625	155
3	95	280	1,260	1,940	2,410	490	3,450	919	1,020	2,030	2,190	143
4	90	440	1,120	1,590	3,270	580	3,310	1,000	884	1,940	1,880	136
5	90	446	1,010	1,460	3,010	882	3,220	983	802	1,940	1,250	129
6	98	459	984	1,230	2,730	1,230	3,070	886	853	2,020	814	125
7	133	456	1,820	809	2,620	1,240	2,920	812	912	1,860	590	129
8	236	438	2,390	946	2,470	1,500	2,580	751	1,020	1,450	436	124
9	245	742	2,280	785	2,180	2,350	2,180	740	899	1,210	337	116
10	209	1,090	2,120	704	1,540	2,540	2,120	952	738	1,140	277	108
11	184	1,020	1,880	708	1,140	2,360	2,660	1,310	613	963	247	102
12	180	896	1,600	701	936	2,240	2,370	1,590	531	871	246	98
13	199	789	1,420	706	878	2,700	1,890	1,490	716	625	228	95
14	201	731	1,280	700	839	3,060	1,610	1,310	1,170	477	213	92
15	194	868	1,200	667	868	2,980	1,450	1,140	1,080	384	203	94
16	185	838	1,080	629	889	2,870	1,340	1,190	788	349	244	96
17	176	725	860	616	743	3,760	1,300	1,350	679	311	244	94
18	168	646	849	634	722	5,250	1,270	1,250	619	276	216	109
19	161	584	916	706	693	3,990	1,340	1,250	567	248	193	211
20	156	851	846	1,120	700	3,280	1,220	1,240	518	227	176	205
21	150	1,640	772	1,540	697	3,170	1,170	2,150	448	253	166	191
22	146	1,540	753	1,580	697	2,910	1,120	2,920	390	400	152	187
23	144	1,210	753	2,130	720	2,650	1,040	2,920	364	351	142	190
24	137	907	739	2,880	683	2,240	945	2,540	353	264	133	158
25	137	854	722	2,840	638	1,910	868	2,060	361	221	125	131
26	136	1,040	718	2,560	607	1,820	816	1,650	415	199	117	112
27	135	2,490	725	2,310	524	2,160	938	1,340	403	188	117	101
28	138	2,650	720	1,980	500	2,020	1,310	1,170	996	195	121	107
29	176	2,430	668	1,310	------	1,750	1,530	1,230	873	185	120	102
30	216	2,080	624	1,110	------	1,560	1,370	1,410	1,040	170	113	97
31	212	------	681	1,140	------	1,480	------	1,380	------	158	115	------
TOTAL	4,918	29,617	35,960	41,531	35,766	67,931	54,607	43,143	22,970	26,455	12,176	3,874
MEAN	159	987	1,160	1,340	1,277	2,191	1,820	1,392	766	853	393	129
MAX	245	2,650	2,390	2,880	3,270	5,250	3,450	2,920	1,340	3,030	2,190	211
MIN	90	190	624	616	500	490	816	740	353	158	113	92
MEAN†	160	1,004	1,155	1,341	1,271	2,193	1,817	1,396	809	802	392	113
CFSM†	.38	2.39	2.75	3.19	3.03	5.22	4.33	3.32	1.93	1.91	.93	.27
IN.†	.44	2.67	3.17	3.68	3.15	6.02	4.83	3.83	2.15	2.20	1.08	.30

CAL YR 1972 TOTAL 356,626 MEAN 974 MAX 6,870 MIN 80 MEAN† 974 CFSM† 2.32 IN† 31.58
WTR YR 1973 TOTAL 378,926 MEAN 1,038 MAX 5,250 MIN 90 MEAN† 1,037 CFSM† 2.47 IN† 33.52

† Adjusted for change in contents in Surry Mountain and Otter Brook Lakes.

01161500 Tarbell Brook near Winchendon, Mass.

LOCATION.--Lat 42°42'45", long 72°05'09", Worcester County, on left bank 0.1 mi (0.2 km) downstream from Spud Brook, 0.3 mi (0.5 km) downstream from Massachusetts-New Hampshire State line, and 2.8 mi (4.5 km) northwest of Winchendon.

DRAINAGE AREA.--18.2 mi^2 (47.1 km^2).

PERIOD OF RECORD.--May 1916 to current year. Prior to October 1950, published as Sip Pond Brook near Winchendon.

GAGE.--Water-stage recorder. Concrete control since Sept. 24, 1965. Datum of gage is 872.82 ft (266.036 m) above mean sea level. May 29 to June 29, 1916, nonrecording gage; June 30 to Dec. 12, 1916, water-stage recorder; and Dec. 13, 1916, to June 26, 1917, nonrecording gage, all at site 450 ft (150 m) downstream at same datum.

AVERAGE DISCHARGE.--57 years, 29.1 ft^3/s (0.824 m^3/s), 21.71 in/yr (551 mm/yr).

EXTREMES.--Current year: Maximum discharge, 318 ft^3/s (9.01 m^3/s) July 1 (gage height, 9.51 ft or 2.899 m, from peak-stage indicator); minimum, 1.5 ft^3/s (0.042 m^3/s) Sept. 26.

Period of record: Maximum discharge, 2,630 ft^3/s (74.5 m^3/s) Sept. 21, 1938 (gage height, 13.72 ft or 4.182 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of critical-depth study at control section; minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 25, 1924.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Some regulation by Pearly and Sip Ponds and Damon Reservoirs 1 mi (1.6 km) upstream. Prior to 1967, greater regulation by these reservoirs and by small mill above station.

REVISIONS (WATER YEARS).--WSP 781: 1934. WSP 871: Drainage area. WSP 1051: 1928(M), 1933-34. WSP 1301: 1917(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.6	67	58	42	17	74	59	22	300	7.9	6.5
2	3.7	9.5	61	95	45	17	151	46	18	230	16	5.8
3	4.9	9.0	51	85	130	17	211	28	16	120	35	4.6
4	6.2	8.7	43	72	158	23	166	27	16	80	37	5.2
5	3.5	6.2	43	64	138	33	153	25	13	70	28	4.5
6	2.6	6.8	50	53	116	38	137	31	12	55	19	4.8
7	9.8	5.6	99	45	93	38	119	48	17	45	15	4.2
8	6.2	7.5	103	38	77	56	103	43	25	35	12	6.2
9	3.5	17	94	33	68	96	88	41	25	25	10	4.8
10	2.8	13	89	29	55	99	88	49	44	18	18	2.4
11	2.5	12	82	27	45	91	115	67	38	22	24	2.5
12	4.2	8.9	69	24	39	87	109	80	32	21	22	2.7
13	6.5	11	60	23	35	107	90	72	44	19	17	2.8
14	5.3	13	55	22	31	125	74	58	72	17	14	4.0
15	5.7	16	48	21	28	124	61	47	51	15	10	5.0
16	5.9	15	46	20	27	125	46	47	25	19	6.4	3.4
17	3.4	13	43	20	26	158	33	38	22	17	9.6	2.8
18	3.2	13	37	20	24	273	32	30	18	10	15	5.0
19	3.2	13	31	23	23	227	29	29	16	7.6	13	3.4
20	3.2	27	30	49	23	172	26	36	14	6.6	9.4	2.9
21	3.8	39	28	55	23	136	25	78	12	16	5.8	2.8
22	4.6	40	28	50	23	110	22	107	11	35	5.9	2.8
23	3.7	32	26	84	22	90	19	92	11	27	7.2	2.9
24	5.6	27	24	113	21	77	20	72	13	39	11	4.9
25	4.6	24	22	104	21	70	17	55	17	33	7.4	3.0
26	5.0	47	21	88	20	89	20	43	16	26	7.3	2.1
27	3.7	87	21	74	18	120	38	34	15	24	11	2.2
28	5.7	88	21	62	18	117	55	26	35	21	14	2.6
29	5.7	78	20	57	------	102	77	29	50	18	9.5	3.7
30	6.7	69	19	54	------	87	72	27	150	13	7.7	2.5
31	5.5	------	23	46	------	77	------	24	------	9.2	7.9	------
TOTAL	144.1	760.8	1,454	1,608	1,389	2,998	2,270	1,488	870	1,393.4	435.0	113.0
MEAN	4.65	25.4	46.9	51.9	49.6	96.7	75.7	48.0	29.0	44.9	14.0	3.77
MAX	9.8	88	103	113	158	273	211	107	150	300	37	6.5
MIN	2.5	4.6	19	20	18	17	17	24	11	6.6	5.8	2.1
CFSM	.26	1.40	2.58	2.85	2.73	5.31	4.16	2.64	1.59	2.47	.77	.21
IN.	.29	1.56	2.97	3.29	2.84	6.13	4.64	3.04	1.78	2.85	.89	.23

CAL YR 1972 TOTAL 13,731.8 MEAN 37.5 MAX 257 MIN 2.3 CFSM 2.06 IN 28.07
WTR YR 1973 TOTAL 14,923.5 MEAN 40.9 MAX 300 MIN 2.1 CFSM 2.25 IN 30.50

PEAK DISCHARGE (BASE, 150 ft^3/s)

NOTE.--No gage-height record June 22 to July 16.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	1830	8.28	161				
3-18	1200	9.37	292				
6-30	0430	8.90	226				
7-1	-	9.51	318				

01162000 Millers River near Winchendon, Mass.

LOCATION.--Lat 42°41'03", long 72°05'02", Worcester County, on right bank 10 ft (3 m) downstream from Nolan Bridge, 0.3 mi (0.5 km) downstream from Tarbell Brook, 2 mi (3 km) west of Winchendon, and at mile 32.8 (kilometre 52.8).

DRAINAGE AREA.--83.0 mi^2 (215.0 km^2).

PERIOD OF RECORD.--June 1916 to current year. March to May 1917, monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since Oct. 6, 1933. Datum of gage is 826.66 ft (251.966 m) above mean sea level. Prior to July 27, 1916, nonrecording gage at bridge at same datum.

AVERAGE DISCHARGE.--57 years, 141 ft^3/s (3.993 m^3/s), 23.07 in/yr (586 mm/yr).

EXTREMES.--Maximum discharge, 978 ft^3/s (27.7 m^3/s) Mar. 18 (gage height, 7.85 ft or 2.393 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 17.

Period of record: Maximum discharge, 8,500 ft^3/s (241 m^3/s) Sept. 22, 1938 (gage height, 21.55 ft or 6.568 m, from floodmarks), from rating curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of computation of peak flow over dam; practically no flow because of regulation Sept. 20, 1918, Jan. 14, 1925.

REMARKS.--Records good. Flow regulated by Lake Monomonac 6 mi (10 km) upstream and other reservoirs and, prior to 1957, by powerplant.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1920-21(M), 1922-24, 1928(M), 1933-34.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	26	335	395	225	112	300	309	190	936	28	24
2	76	32	307	476	277	110	562	241	166	781	75	23
3	74	52	271	417	758	111	693	209	143	532	192	23
4	84	50	253	364	705	153	638	211	131	412	146	29
5	80	43	270	321	604	198	618	202	117	344	156	25
6	72	43	331	277	500	209	592	185	80	293	112	28
7	104	40	609	250	410	198	531	197	91	207	87	36
8	139	46	544	230	352	350	477	173	346	163	68	33
9	122	132	542	215	313	505	433	141	197	133	65	32
10	108	118	520	200	275	474	463	171	185	77	60	28
11	104	90	475	190	245	413	545	225	146	85	60	22
12	106	103	410	178	220	416	502	287	121	77	55	20
13	106	107	376	165	201	511	440	261	227	63	44	20
14	89	120	349	161	185	529	385	216	380	54	37	18
15	102	126	319	160	183	501	352	207	337	55	38	20
16	84	106	310	146	179	504	321	232	263	65	57	19
17	76	96	295	142	175	638	281	232	214	54	80	16
18	57	89	265	145	176	941	237	202	173	46	82	19
19	51	73	240	166	167	872	195	218	156	39	58	21
20	43	179	224	321	152	680	143	202	136	36	42	35
21	37	196	213	305	146	537	121	410	105	77	32	38
22	45	152	219	270	144	447	112	534	101	110	29	31
23	40	122	216	464	140	382	101	497	75	133	26	29
24	40	108	205	488	135	346	75	414	68	138	31	30
25	36	98	195	417	132	326	73	335	66	121	26	55
26	35	261	189	356	125	392	82	261	68	107	24	78
27	32	389	187	311	121	451	171	232	73	114	28	80
28	32	349	179	279	119	423	315	209	123	103	32	78
29	39	329	168	270	------	384	344	255	161	65	27	83
30	40	338	161	245	------	351	331	237	513	46	25	80
31	32	------	178	225	------	303	------	209	------	32	26	------
TOTAL	2,169	4,013	9,355	8,549	7,364	12,767	10,433	7,914	5,152	5,498	1,848	1,073
MEAN	70.0	134	302	276	263	412	348	255	172	177	59.6	35.8
MAX	139	389	609	488	758	941	693	534	513	936	192	83
MIN	32	26	161	142	119	110	73	141	66	32	24	16
CFSM	.84	1.61	3.64	3.33	3.17	4.96	4.19	3.07	2.07	2.13	.72	.43
IN.	.97	1.80	4.19	3.83	3.30	5.72	4.68	3.55	2.31	2.46	.83	.48

CAL YR 1972 TOTAL 75,006 MEAN 205 MAX 1,120 MIN 21 CFSM 2.47 IN 33.62
WTR YR 1973 TOTAL 76,135 MEAN 209 MAX 941 MIN 16 CFSM 2.52 IN 34.12

PEAK DISCHARGE (BASE, 690 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	1230	7.36	808	4-3	0800	7.01	703
3-18	1715	7.85	978	7-1	1100	7.83	967

01162500 Priest Brook near Winchendon, Mass.

LOCATION.--Lat 42°40'57", long 72°06'56", Worcester County, on right bank 100 ft (30 m) downstream from highway bridge, 3 mi (4.8 km) upstream from mouth, and 3.5 mi (5.6 km) west of Winchendon.

DRAINAGE AREA.--19.4 mi² (50.2 km²).

PERIOD OF RECORD.--May 1916 to current year. Monthly discharge only October 1917 to July 1918 (published in WSP 1301) and September 1935 to September 1936.

GAGE.--Water-stage recorder. Concrete control since September 1936. Datum of gage is 849.67 ft (258.979 m) above mean sea level. Prior to Sept. 11, 1936, nonrecording gage on left bank at same datum.

AVERAGE DISCHARGE.--57 years, 32.3 ft³/s (0.915 m³/s), 22.61 in/yr (574 mm/yr).

EXTREMES.--Current year: Maximum discharge, 468 ft³/s (13.3 m³/s) July 1 (gage height, 5.39 ft or 1.643 m); minimum, 1.6 ft³/s (0.045 m³/s) Sept. 14, 18.

Period of record: Maximum discharge, 3,000 ft³/s (85.0 m³/s) Sept. 21, 1938 (gage height, 9.90 ft or 3.018 m), from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of contracted-opening measurements at gage heights 8.4 and 9.90 ft (2.56 and 3.018 m); minimum, 0.08 ft³/s (0.002 m³/s) several times in September 1929.

REMARKS.--Records good. Prior to 1962, occasional diurnal fluctuation at low flow by mill above station; prior to 1953, regulation at low flow by mill and ponds.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1922-24. WSP 1301: 1917(M), 1919-24(M), 1926-27(M), 1929(M), 1931-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.5	60	64	38	17	68	47	37	424	7.6	7.3
2	2.3	5.2	55	109	40	16	190	40	31	277	20	5.7
3	2.0	13	45	105	177	17	219	35	26	154	66	4.1
4	2.0	13	40	85	262	23	173	35	22	103	67	3.4
5	1.9	12	34	70	248	38	147	32	21	67	52	2.7
6	1.9	12	42	53	155	48	136	29	20	67	35	4.1
7	3.6	11	96	37	99	49	118	27	25	57	25	5.1
8	7.5	11	138	31	77	64	102	25	66	45	20	4.1
9	5.7	27	111	28	64	110	87	29	40	34	16	3.4
10	4.7	29	99	27	48	111	86	46	29	22	12	2.7
11	3.8	22	92	25	40	99	135	58	21	20	9.9	2.5
12	3.8	19	77	24	33	94	115	79	19	20	9.6	2.2
13	4.4	18	67	22	31	128	97	74	41	16	8.0	1.9
14	4.4	19	61	20	29	143	81	60	51	15	6.7	1.8
15	4.4	23	51	19	28	131	60	49	47	13	6.1	2.0
16	4.0	22	43	18	28	131	54	49	37	14	9.9	1.9
17	4.2	19	39	18	25	197	50	51	31	12	9.2	1.8
18	3.8	17	32	20	25	396	43	46	26	11	8.0	3.0
19	3.4	15	30	26	24	271	40	50	24	10	7.0	7.0
20	3.3	34	28	48	23	175	36	48	20	8.8	5.7	4.8
21	3.0	62	26	62	22	125	33	79	17	25	5.1	3.2
22	2.9	53	26	70	22	100	33	115	15	48	4.8	2.5
23	2.9	42	26	115	23	81	29	104	14	34	4.1	2.7
24	2.8	31	26	154	22	68	25	89	13	25	3.6	2.7
25	2.7	25	25	138	20	64	20	72	19	19	3.4	3.0
26	2.7	42	25	106	19	79	25	57	17	15	3.4	3.0
27	2.6	93	25	81	18	117	45	47	16	14	3.8	2.7
28	2.7	89	24	67	17	106	60	43	37	15	3.8	2.5
29	4.2	82	22	50	------	93	63	58	48	13	3.4	2.3
30	5.0	69	21	44	------	80	55	48	186	9.9	3.2	2.2
31	4.9	------	23	41	------	70	------	43	------	8.8	3.6	------
TOTAL	110.0	933.7	1,509	1,777	1,657	3,241	2,425	1,656	1,016	1,616.5	442.9	98.3
MEAN	3.55	31.1	48.7	57.3	59.2	105	80.8	53.4	33.9	52.1	14.3	3.28
MAX	7.5	93	138	154	262	396	219	115	186	424	67	7.3
MIN	1.9	4.5	21	18	17	16	20	25	13	8.8	3.2	1.8
CFSM	.18	1.60	2.51	2.95	3.05	5.41	4.16	2.75	1.75	2.69	.74	.17
IN.	.21	1.79	2.89	3.41	3.18	6.21	4.65	3.18	1.95	3.10	.85	.19

CAL YR 1972 TOTAL 14,574.8 MEAN 39.8 MAX 316 MIN 1.8 CFSM 2.05 IN 27.95
WTR YR 1973 TOTAL 16,482.4 MEAN 45.2 MAX 424 MIN 1.8 CFSM 2.33 IN 31.61

PEAK DISCHARGE (BASE, 190 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-4	1615	4.90	347				
3-18	0900	5.26	431				
4-2	1545	4.47	253				
7-1	0045	5.39	468				

01163200 Otter River at Otter River, Mass.

LOCATION.--Lat 42°35'18", long 72°02'29", Worcester County, on right bank at upstream side of Turner Street Bridge 0.2 mi (0.3 km) upstream from Bailey Brook, 0.8 mi (1.3 km) southeast of Otter River, and 2 mi (3 km) northwest of Gardner.

DRAINAGE AREA.--34.2 mi^2 (88.6 km^2).

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 900 ft (274 m) from topographic map.

AVERAGE DISCHARGE.--8 years (1965-73), 58.0 ft^3/s (1.643 m^3/s), 23.03 in/yr (585 mm/yr).

EXTREMES.--Current year: Maximum discharge, 414 ft^3/s (11.7 m^3/s) Feb. 3 (gage height, 3.44 ft or 1.049 m); minimum, 7.5 ft^3/s (0.212 m^3/s) Oct. 3.

Period of record: Maximum discharge, 637 ft^3/s (18.0 m^3/s) Mar. 19, 1968 (gage height, 4.19 ft or 1.277 m); minimum, 3.3 ft^3/s (0.093 m^3/s) Aug. 29-31, 1966.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	20	102	183	70	41	77	117	76	261	17	64
2	8.9	24	88	272	100	41	196	95	67	215	32	72
3	8.1	41	80	240	342	46	258	85	60	147	61	56
4	13	37	79	177	382	75	218	92	55	102	86	41
5	11	35	77	144	289	100	201	86	51	83	71	31
6	9.5	38	93	116	217	109	207	76	49	74	54	30
7	28	40	247	87	159	97	195	68	47	59	39	30
8	53	41	256	77	128	171	171	62	60	48	34	26
9	38	114	219	69	111	289	145	70	60	41	30	23
10	32	129	201	65	91	246	147	91	75	36	27	20
11	28	100	179	62	80	190	193	123	60	32	23	17
12	27	81	148	57	66	166	173	139	50	28	22	19
13	32	68	127	50	60	193	137	133	70	25	20	13
14	28	69	117	46	59	196	121	109	82	22	15	12
15	27	95	102	45	60	169	105	91	64	19	14	14
16	26	84	93	46	58	157	90	106	51	19	27	14
17	32	67	80	46	54	184	79	112	45	18	26	12
18	24	56	71	56	57	295	73	103	40	17	25	21
19	21	50	68	71	51	271	67	108	39	15	24	38
20	19	109	66	156	51	205	61	96	39	14	20	34
21	19	164	64	108	52	156	55	196	34	24	17	32
22	18	134	77	146	52	125	53	236	31	31	15	29
23	15	95	96	201	51	105	51	191	30	29	13	29
24	17	74	93	215	51	92	50	139	28	25	12	25
25	17	63	88	146	46	83	50	99	26	24	11	22
26	17	108	83	151	45	102	56	86	25	21	11	20
27	17	191	80	121	43	128	117	77	28	20	9.7	18
28	17	175	76	105	41	117	190	72	47	23	10	16
29	23	142	68	68	------	99	195	92	51	22	9.7	16
30	25	112	62	90	------	85	152	95	156	20	9.0	16
31	23	------	67	78	------	76	------	85	------	18	13	------
TOTAL	686.5	2,556	3,347	[illegible]	2,866	4,409	3,883	3,330	1,596	1,532	797.4	810
MEAN	22.1	85.2	108	117	102	142	129	107	53.2	49.4	25.7	27.0
MAX	53	191	256	272	382	295	258	236	156	261	86	72
MIN	8.1	20	62	45	41	41	50	62	25	14	9.0	12
CFSM	.65	2.49	3.16	3.42	2.98	4.15	3.77	3.13	1.56	1.44	.75	.79
IN.	.75	2.78	3.64	3.94	3.12	4.80	4.22	3.62	1.74	1.67	.87	.88

CAL YR 1972 TOTAL 29,568.8 MEAN 80.8 MAX 349 MIN 7.4 CFSM 2.36 IN 32.16
WTR YR 1973 TOTAL 29,436.9 MEAN 80.6 MAX 382 MIN 8.1 CFSM 2.36 IN 32.02

01164000 Millers River at South Royalston, Mass.

LOCATION.--Lat 42°37'47", long 72°09'03", Worcester County, on right bank 500 ft (150 m) downstream from bridge in South Royalston, 0.4 mi (0.6 km) downstream from Beaver Brook, 1.7 mi (2.7 km) downstream from Birch Hill Dam, and at mile 25.5 (kilometre 41.0).

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 792.00 ft (241.402 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--34 years, 311 ft³/s (8.808 m³/s), 22.58 in/yr (574 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Mar. 19 (gage height, 6.88 ft or 2.097 m); maximum gage height, 7.10 ft (2.164 m) Jan. 10 (backwater from ice); minimum daily discharge, 59 ft³/s (1.67 m³/s) Sept. 14, 17.

Period of record: Maximum discharge, 4,400 ft³/s (125 m³/s) Apr. 13, 1940 (gage height, 8.40 ft or 2.560 m); maximum gage height, 9.42 ft (2.871 m) Jan. 24, 1959 (backwater from ice); minimum daily discharge, 9.3 ft³/s (0.26 m³/s) Aug. 4, 1956. Maximum discharge since construction of Birch Hill Reservoir in 1941, 2,830 ft³/s (80.1 m³/s) June 25, 26, 1944 (gage height, 7.57 ft or 2.307 m).

Flood of Sept. 21 or 22, 1938, reached a stage of 15.9 ft (4.85 m), from floodmarks (discharge not determined).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Lake Monomonac and other reservoirs, by mills and powerplants prior to 1955, and at high flow by Birch Hill Reservoir (see p. 215).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	82	637	692	460	244	662	667	476	430	93	163
2	115	85	588	1,090	500	241	874	604	426	604	141	176
3	104	154	525	1,070	790	242	1,160	539	375	883	411	146
4	113	170	487	966	992	308	1,180	513	329	1,100	441	118
5	119	151	467	790	1,260	440	1,310	497	298	1,180	411	98
6	113	157	519	595	1,480	494	1,320	459	252	1,260	349	96
7	138	154	992	490	1,450	506	1,270	428	240	1,220	266	138
8	265	146	1,110	470	1,280	675	1,180	401	481	947	197	116
9	230	319	1,130	430	961	1,080	1,080	377	508	701	171	97
10	188	412	1,110	400	770	1,170	1,040	428	450	488	146	90
11	162	339	1,050	380	650	1,100	1,100	506	375	342	139	75
12	159	296	905	350	520	1,020	1,120	606	318	265	128	69
13	173	277	779	330	440	1,070	1,050	635	389	212	114	64
14	154	279	695	310	410	1,130	964	606	532	177	98	59
15	148	353	614	310	389	1,120	866	551	558	161	95	61
16	148	327	554	290	386	1,090	773	539	519	174	144	63
17	131	279	470	277	330	1,170	693	558	451	156	161	59
18	121	242	510	293	340	1,500	617	534	385	136	168	66
19	96	213	480	350	350	1,710	550	529	334	120	152	115
20	93	357	440	589	332	1,640	471	517	302	108	117	114
21	80	604	415	778	322	1,450	395	679	257	178	93	112
22	84	549	418	731	320	1,240	351	901	232	297	82	98
23	80	415	464	898	317	1,030	327	982	196	290	75	94
24	77	331	450	1,140	305	796	288	933	176	274	73	88
25	79	280	425	1,070	283	663	260	834	166	244	70	92
26	77	424	408	928	275	695	285	724	162	214	66	132
27	76	803	400	753	257	794	394	621	164	208	66	135
28	73	846	385	636	243	822	578	547	296	218	69	137
29	89	820	358	490	------	816	695	553	362	177	68	135
30	104	712	337	490	------	767	706	560	708	135	63	132
31	94	------	351	470	------	708	------	522	------	108	69	------
TOTAL	3,812	10,576	18,473	18,856	16,412	27,731	23,519	18,350	10,719	13,007	4,736	3,138
MEAN	123	353	596	608	586	895	784	592	357	420	153	105
MAX	265	846	1,130	1,140	1,480	1,710	1,320	982	708	1,260	441	176
MIN	73	82	337	277	243	241	285	377	162	108	63	59
MEAN†	123	357	593	611	583	917	777	585	371	398	152	105
CFSM†	.66	1.91	3.17	3.27	3.12	4.90	4.16	3.13	1.98	2.13	.81	.56
IN.†	.76	2.13	3.65	3.77	3.25	5.65	4.63	3.61	2.22	2.45	.94	.63

CAL YR 1972 TOTAL 162,717 MEAN 445 MAX 2,000 MIN 48 MEAN† 445 CFSM† 2.38 IN† 32.37
WTR YR 1973 TOTAL 169,329 MEAN 464 MAX 1,710 MIN 59 MEAN† 464 CFSM† 2.48 IN† 33.69

† Adjusted for change in contents in Birch Hill Reservoir.

01165000 East Branch Tully River near Athol, Mass.

LOCATION.--Lat 42°38'32", long 72°13'34", Worcester County, on right bank 300 ft (90 m) downstream from Tully Dam, 1.3 mi (2.1 km) downstream from Lawrence Brook, 3.5 mi (5.6 km) north of Athol, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--50.4 mi^2 (130.5 km^2).

PERIOD OF RECORD.--October 1915 to current year. October 1915 to May 1916 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 613.71 ft (187.059 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 26, 1948, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 14.40 ft (4.389 m) higher.

AVERAGE DISCHARGE.--58 years, 80.2 ft^3/s (2.271 m^3/s), 21.61 in/yr (549 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 696 ft^3/s (19.7 m^3/s) Mar. 20 (gage height, 4.81 ft or 1.466 m); minimum, 0.35 ft^3/s (0.010 m^3/s) Nov. 15; minimum daily, 0.58 ft^3/s (0.02 m^3/s) Feb. 3.

Period of record: Maximum discharge, 5,140 ft^3/s (146 m^3/s) Sept. 21, 1938 (gage height, 8.60 ft or 2.621 m, from floodmarks, site and datum then in use), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of contracted-opening measurement and computation of peak flow over dam; minimum, 0.01 ft^3/s (<0.001 m^3/s) Nov. 6-11, 1961; minimum daily, 0.01 ft^3/s (<.001 m^3/s) Nov. 7-10, 1961. Maximum discharge since construction of Tully Reservoir in 1948, 828 ft^3/s (23.4 m^3/s) Apr. 21, 1960 (gage height, 5.38 ft or 1.640 m).

REMARKS.--Records good. Flow regulated by Tully Reservoir since 1948 (see p. 215).

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 891: Drainage area. WSP 1051: 1916(M), 1928. WSP 1301: 1917-35(M), 1937(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	13	263	88	91	50	167	162	93	127	18	14
2	1.7	19	227	196	77	50	216	159	93	159	18	14
3	1.7	19	152	263	.58	50	349	135	76	195	58	14
4	1.7	19	118	263	76	51	353	84	56	201	137	14
5	1.7	29	93	256	203	69	353	67	49	201	132	14
6	1.7	40	83	230	249	115	362	67	49	198	73	14
7	1.6	51	68	150	275	123	235	67	49	198	45	14
8	1.2	51	99	110	358	152	235	65	71	201	29	14
9	.89	51	161	62	383	256	190	65	142	123	19	14
10	60	59	193	34	341	325	187	97	107	45	19	14
11	123	64	206	46	286	275	273	167	71	23	19	14
12	125	63	230	51	245	216	299	207	58	30	19	14
13	102	63	223	51	152	206	232	175	51	48	19	14
14	52	63	152	51	82	226	181	154	80	48	19	14
15	26	56	94	51	65	239	167	132	147	48	19	14
16	11	64	65	51	66	250	157	132	165	29	19	14
17	4.8	65	86	51	85	257	130	127	110	19	19	14
18	4.8	63	95	51	95	258	105	125	51	19	19	13
19	4.8	63	86	60	93	406	90	127	51	30	19	13
20	4.8	63	79	88	73	604	90	127	33	46	20	13
21	4.8	66	79	120	65	607	90	187	24	35	19	13
22	4.8	86	79	147	65	361	90	333	24	35	8.5	13
23	4.8	95	79	234	65	223	90	266	24	46	2.7	12
24	4.8	94	80	337	65	178	90	207	22	46	12	12
25	3.2	91	79	370	65	165	74	181	21	46	17	12
26	3.2	90	79	341	55	165	60	139	21	33	17	12
27	3.2	138	79	282	50	210	67	110	26	21	17	12
28	3.3	230	70	206	50	245	84	107	78	20	16	12
29	3.1	193	66	150	------	204	142	142	112	19	14	11
30	2.3	230	66	125	------	167	165	139	125	18	14	11
31	2.4	------	66	99	------	167	------	110	------	18	14	------
TOTAL	571.99	2,291	3,595	4,614	3,775.58	6,870	5,323	4,362	2,079	2,325	890.2	397
MEAN	18.5	76.4	116	149	135	222	177	141	69.3	75.0	28.7	13.2
MAX	125	230	263	370	383	607	362	333	165	201	137	14
MIN	.89	13	65	34	.58	50	60	65	21	18	2.7	11
MEAN†	11.0	79.8	113	148	135	235	183	135	72.7	71.3	26.7	13.6
CFSM†	.22	1.58	2.24	2.94	2.68	4.66	3.63	2.68	1.44	1.41	.53	.27
IN.†	.25	1.77	2.58	3.38	2.80	5.38	4.05	3.09	1.61	1.63	.61	.30

CAL YR 1972 TOTAL 34,721.56 MEAN 94.9 MAX 608 MIN .42 MEAN† 94.5 CFSM† 1.88 IN† 25.52
WTR YR 1973 TOTAL 37,093.77 MEAN 102 MAX 607 MIN .58 MEAN† 102 CFSM† 2.02 IN† 27.45

† Adjusted for change in contents in Tully Reservoir.

01165300 Lake Rohunta Outlet near Athol, Mass.

LOCATION.--Lat 42°34'13", long 72°16'22", Worcester County, on right bank 300 ft (90 m) downstream from bridge on Daniel Shays Highway, 600 ft (200 m) downstream from Lake Rohunta, and 2.8 mi (4.5 km) southwest of Athol.

DRAINAGE AREA.--20.3 mi² (52.6 km²).

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 503.32 ft (153.412 m) above mean sea level.

AVERAGE DISCHARGE.--8 years (1965-73), 33.4 ft³/s (0.946 m³/s).

EXTREMES.--Current year: Maximum discharge, 199 ft³/s (5.64 m³/s) Feb. 4 (gage height, 3.38 ft or 1.030 m); minimum daily, 0.88 ft³/s (0.025 m³/s) June 13.

Period of record: Maximum discharge, 496 ft³/s (14.0 m³/s) June 29, 1972 (gage height, 5.52 ft or 1.682 m), from rating curve extended above 240 ft³/s (6.80 m³/s); minimum daily, 0.17 ft³/s (0.005 m³/s) June 3, 4, 1971.

REMARKS.--Records good. Flow regulated by Lake Rohunta.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	8.3	61	75	56	30	68	62	54	60	8.8	8.8
2	9.8	9.1	55	112	61	29	101	56	49	67	13	8.5
3	14	14	50	116	121	30	139	52	46	59	27	7.2
4	15	15	45	103	191	40	139	51	39	53	35	6.0
5	13	17	49	89	178	50	139	51	34	52	35	4.9
6	9.8	46	52	77	145	56	135	47	31	48	32	5.8
7	13	70	82	64	117	60	126	39	31	43	26	6.0
8	16	42	112	54	98	72	111	33	48	38	22	5.2
9	14	35	116	49	86	103	97	34	70	32	19	4.3
10	12	38	112	46	75	117	100	39	77	26	16	3.8
11	12	39	102	43	66	111	118	53	33	22	14	3.6
12	11	35	91	40	59	103	120	65	1.2	17	13	3.3
13	10	28	80	37	55	107	105	66	.88	16	11	3.2
14	11	32	71	35	52	113	92	62	6.2	13	8.8	2.9
15	9.1	43	64	32	53	109	82	56	18	12	8.5	3.6
16	11	47	65	32	52	106	74	57	28	12	9.5	3.6
17	9.8	42	59	31	49	120	67	57	30	11	8.5	3.5
18	11	36	53	32	46	176	62	54	30	9.5	8.0	6.0
19	11	31	49	34	43	179	58	53	44	8.8	7.2	8.0
20	11	44	48	51	43	147	54	49	59	8.8	6.7	8.3
21	11	54	47	66	41	118	51	76	46	11	6.2	7.5
22	9.1	60	51	68	41	95	49	111	34	13	6.0	7.5
23	8.8	55	55	91	40	84	47	114	27	12	5.2	7.2
24	7.5	47	56	125	38	79	47	96	22	11	4.7	7.0
25	6.5	40	54	125	37	75	47	79	18	10	4.7	6.7
26	6.2	49	51	106	35	77	48	67	16	9.1	4.5	6.2
27	6.2	61	51	88	34	83	57	59	15	9.8	4.3	5.8
28	5.8	68	50	77	32	85	71	56	18	9.8	4.3	5.2
29	7.2	63	47	81	------	79	69	57	27	8.5	4.1	5.2
30	7.2	57	46	75	------	73	67	58	43	9.5	3.5	4.7
31	8.3	------	52	66	------	68	------	57	------	9.8	4.0	------
TOTAL	313.1	1,225.4	1,976	2,120	1,944	2,776	2,542	1,864	995.28	721.6	382.5	169.5
MEAN	10.1	40.8	63.7	68.4	69.4	89.5	84.7	60.1	33.2	23.3	12.3	5.65
MAX	16	70	116	125	191	179	139	114	77	67	35	8.8
MIN	5.8	8.3	45	31	32	29	47	33	.88	8.5	3.5	2.9

CAL YR 1972 TOTAL 16,744.32 MEAN 45.8 MAX 222 MIN .52
WTR YR 1973 TOTAL 17,029.38 MEAN 46.7 MAX 191 MIN .88

01165500 Moss Brook at Wendell Depot, Mass.

LOCATION.--Lat 42°36'10", long 72°21'36", Franklin County, on left bank 0.2 mi (0.3 km) upstream from mouth, 0.2 mi (0.3 km) north of Wendell Depot, and 2.5 mi (4.0 km) west of Orange.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--June to October 1909, April to August 1910, June 1916 to current year. Published as "at Wendell" 1909-10.

GAGE.--Water-stage recorder. Crest-stage gage since July 11, 1958. Datum of gage is 508.9 ft (155.11 m) above mean sea level. Prior to April 1910, nonrecording gage at site 1,200 ft (350 m) downstream at different datum. April to August 1910, nonrecording gage and sharp-crested weir at site 300 ft (90 m) downstream at different datum. June 1916 to Dec. 8, 1965, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--57 years (1916-73), 19.9 ft³/s (0.564 m³/s), 21.97 in/yr (558 mm/yr).

EXTREMES.--Current year: Maximum discharge, 354 ft³/s (10.0 m³/s) Mar. 18 (gage height, 3.98 ft or 1.213 m); maximum gage height, 4.50 ft or 1.372 m Feb. 3 (ice jam); minimum discharge, 1.8 ft³/s (0.051 m³/s) Aug. 31.

Period of record: Maximum discharge, 1,540 ft³/s (43.6 m³/s) Mar. 19, 1936 (gage height, 6.30 ft or 1.920 m, from floodmarks), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurements at gage heights 5.62 and 6.30 ft (1.713 and 1.920 m); minimum, 0.2 ft³/s (0.006 m³/s) Sept. 4, 5, 1929.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 821: 1936(M). WSP 891: Drainage area. WSP 1051: 1917, 1919-24, 1929(m). WSP 1231: 1917-21(M), 1922, 1923(M), 1924-26, 1927-28(M), 1929, 1930-35(M), 1939(M), 1941(M), 1944(M), 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.3	32	66	25	14	40	30	20	116	3.5	15
2	4.4	6.7	31	106	27	14	168	25	17	49	20	8.7
3	3.7	15	26	66	130	14	127	23	14	27	53	5.0
4	2.6	14	24	44	129	20	79	26	13	20	26	4.0
5	2.4	11	22	38	87	31	95	24	12	30	13	3.3
6	2.3	12	35	32	61	36	92	21	12	29	8.5	5.7
7	8.1	12	110	28	45	35	80	18	12	19	6.5	11
8	14	13	84	25	39	47	63	17	13	13	5.2	6.9
9	8.7	29	58	23	37	75	50	23	12	11	4.5	4.9
10	5.7	24	54	22	34	68	75	38	10	8.5	3.9	3.9
11	4.6	15	52	21	30	56	118	53	9.1	7.8	3.6	3.2
12	4.5	13	42	20	26	55	68	57	9.0	8.0	3.6	2.7
13	6.1	12	36	19	24	90	50	42	14	6.9	3.3	2.5
14	6.3	14	34	18	23	92	41	32	17	5.8	2.9	2.5
15	5.9	25	28	17	22	70	36	26	14	5.6	4.5	2.9
16	5.2	21	26	16	21	77	33	35	10	6.2	9.8	2.9
17	4.5	15	24	16	21	156	30	38	9.2	5.4	6.7	2.6
18	4.0	13	22	17	20	257	27	30	8.1	4.6	5.2	3.9
19	3.8	12	21	21	20	106	25	34	7.8	4.2	4.3	5.9
20	3.8	38	20	60	19	71	23	29	7.0	3.8	3.6	4.5
21	3.6	64	19	133	18	55	21	110	6.5	11	2.9	3.6
22	3.6	35	20	67	17	46	20	108	6.1	15	2.6	3.2
23	3.6	27	22	150	17	41	19	60	6.2	8.8	2.6	3.2
24	3.5	18	22	122	16	38	18	41	6.0	6.0	2.3	3.2
25	3.5	16	21	73	16	37	17	33	5.4	4.7	2.2	2.8
26	3.5	58	21	51	16	60	18	28	4.7	4.0	2.0	2.7
27	3.3	125	21	40	15	80	35	25	5.2	5.3	2.0	2.6
28	3.3	63	20	36	15	55	54	25	19	6.5	2.0	2.5
29	5.6	46	19	30	------	43	59	32	36	6.0	2.0	2.4
30	7.1	36	17	30	------	39	40	29	108	5.4	1.9	2.3
31	5.7	------	22	27	------	37	------	23	------	4.1	3.6	------
TOTAL	152.2	808.0	1,005	1,434	970	1,915	1,621	1,135	443.3	457.6	217.7	130.5
MEAN	4.91	26.9	32.4	46.3	34.6	61.8	54.0	36.6	14.8	14.8	7.02	4.35
MAX	14	125	110	150	130	257	168	110	108	116	53	15
MIN	2.3	5.3	17	16	15	14	17	17	4.7	3.8	1.9	2.3
CFSM	.40	2.19	2.63	3.76	2.81	5.02	4.39	2.98	1.20	1.20	.57	.35
IN.	.46	2.44	3.04	4.34	2.93	5.79	4.90	3.43	1.34	1.38	.66	.39

CAL YR 1972 TOTAL 9,337.7 MEAN 25.5 MAX 165 MIN 2.0 CFSM 2.07 IN 28.24
WTR YR 1973 TOTAL 10,289.3 MEAN 28.2 MAX 257 MIN 1.9 CFSM 2.29 IN 31.12

PEAK DISCHARGE (BASE, 160 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-23	-	-	†220				
2-3	1600	3.61	253				
3-18	0300	3.98	354				
4-2	1300	3.47	218				
5-21	1845	3.22	165				

† About.

01166500 Millers River at Erving, Mass.

LOCATION.--Lat 42°35'51", long 72°26'19", Franklin County, on right bank 75 ft (23 m) downstream from bridge at Farley, 0.6 mi (1.0 km) upstream from Mormon Hollow Brook, 2.4 mi (3.9 km) downstream from Erving, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--375 mi² (971 km²).

PERIOD OF RECORD.--August 1914 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (116 m) from topographic map. Prior to June 30, 1915, nonrecording gage, June 30, 1915, to Sept. 20, 1938, water-stage recorder, and Sept. 21 to Dec. 31, 1938, nonrecording gage, at site 2.2 mi (3.5 km) upstream at different datum. Jan. 1 to Mar. 29, 1939, nonrecording gage, and Mar. 30, 1939, to Sept. 12, 1941, water-stage recorder, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--59 years, 616 ft³/s (17.45 m³/s), 22.31 in/yr (567 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,190 ft³/s (119 m³/s) Mar. 18 (gage height, 6.26 ft or 1.908 m); minimum daily, 77 ft³/s (2.18 m³/s) Sept. 18.

Period of record: Maximum discharge, 29,000 ft³/s (821 m³/s) Sept. 22, 1938 (gage height, 13.37 ft or 4.075 m, from floodmarks, site and datum then in use), mean of two slope-area measurements; practically no flow at times during 1915 and 1916 because of regulation; minimum daily, 8 ft³/s (0.23 m³/s) Sept. 6, 1926.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by powerplants, Lake Monomonac and other reservoirs, and high flow, by Birch Hill Reservoir 22 mi (35 km) upstream and Tully Reservoir (see p. 215); greater regulation by powerplants prior to 1966.

REVISIONS (WATER YEARS).--WSP 641: 1920(M). WSP 756: Drainage area. WSP 781: 1928(M), 1933(M). WSP 1301: 1915(M).

DISCHARGF, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	161	1,310	1,590	840	460	1,310	1,210	888	1,690	183	266
2	175	194	1,190	2,150	913	460	2,620	1,110	807	1,110	387	279
3	92	279	1,020	2,040	2,100	460	2,650	1,020	720	1,350	778	246
4	137	322	908	1,880	2,620	540	2,620	960	639	1,630	823	215
5	159	303	844	1,610	2,260	760	2,620	868	571	1,890	770	177
6	183	362	1,030	1,240	2,440	920	2,800	810	527	1,890	612	177
7	228	385	1,850	781	2,430	940	2,520	750	450	1,810	462	250
8	362	364	1,900	720	2,340	1,300	2,210	708	925	1,540	360	219
9	344	579	1,940	670	1,990	1,700	1,990	745	958	1,130	297	103
10	286	679	1,960	640	1,560	2,200	2,120	869	967	813	266	157
11	326	600	1,860	620	1,350	2,300	2,550	1,140	654	593	208	138
12	371	522	1,650	600	1,100	2,000	2,320	1,350	573	468	208	121
13	390	498	1,540	590	950	2,250	2,040	1,310	720	398	212	114
14	335	528	1,300	580	800	2,350	1,740	1,160	873	450	190	109
15	256	663	1,140	570	720	2,140	1,550	1,050	921	345	190	107
16	267	622	949	570	700	2,170	1,410	1,100	938	330	266	160
17	211	547	708	553	580	2,830	1,260	1,100	861	293	262	121
18	179	475	738	566	570	3,870	1,140	1,050	688	250	258	77
19	185	435	973	655	600	3,230	1,010	1,060	544	223	246	130
20	158	761	817	1,110	640	3,220	820	1,010	582	212	230	186
21	162	1,130	740	1,390	600	3,020	803	1,990	500	335	167	173
22	118	987	772	1,400	600	2,540	735	2,260	432	486	105	146
23	164	815	859	2,210	600	1,930	701	2,120	376	420	135	146
24	148	680	849	2,760	570	1,580	688	1,690	350	320	121	167
25	140	576	810	2,470	540	1,280	595	1,530	330	360	114	135
26	121	1,010	785	2,130	490	1,500	572	1,310	311	325	114	143
27	130	1,680	766	1,810	480	1,670	827	1,140	315	315	127	177
28	103	1,590	735	1,540	460	1,690	1,170	996	548	330	125	183
29	156	1,520	680	1,170	------	1,620	1,300	1,140	846	302	118	163
30	197	1,310	640	910	------	1,400	1,290	1,100	1,690	275	101	170
31	172	------	728	850	------	1,310	------	1,020	------	197	91	------
TOTAL	6,454	20,577	33,991	38,375	31,883	55,640	47,941	36,676	20,504	22,080	8,526	4,955
MEAN	208	686	1,096	1,238	1,139	1,795	1,598	1,183	683	712	275	165
MAX	390	1,680	1,960	2,760	2,620	3,870	2,800	2,260	1,690	1,890	823	279
MIN	92	161	640	553	460	460	572	708	311	197	91	77
MEAN†	201	694	1,090	1,239	1,136	1,831	1,596	1,171	701	686	272	166
CFSM†	.54	1.85	2.91	3.30	3.03	4.88	4.26	3.12	1.87	1.83	.73	.44
IN.†	.62	2.07	3.35	3.81	3.16	5.63	4.75	3.60	2.09	2.11	.84	.50

CAL YR 1972 TOTAL 313,193 MEAN 856 MAX 3,870 MIN 57 MEAN† 855 CFSM† 2.28 IN† 31.06
WTR YR 1973 TOTAL 327,602 MEAN 898 MAX 3,870 MIN 77 MEAN† 898 CFSM† 2.39 IN† 32.51

† Adjusted for change in contents in Birch Hill and Tully Reservoirs.

01167000 Connecticut River at Turners Falls, Mass.

LOCATION.--Lat 42°36'40", long 72°33'20", Franklin County, at dam of Western Massachusetts Electric Co., at Turners Falls, 0.2 mi (0.3 km) upstream from Fall River, and at mile 122.2 (kilometre 196.6).

DRAINAGE AREA.--7,163 mi² (18,552 km²).

PERIOD OF RECORD.--January 1915 to current year.

AVERAGE DISCHARGE.--58 years, 11,730 ft³/s (332.2 m³/s), 22.24 in/yr (565 mm/yr), adjusted for storage.

REMARKS.--Discharge computed by adding flow over and through dam, flow for factories through canal that diverts around dam, and flow through power stations 1 and 2 of Western Massachusetts Electric Co. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 215), and other reservoirs (combined usable capacity, about 35,000,000,000 ft³ or 990,000,000 m³).

COOPERATION.--Records furnished by Western Massachusetts Electric Co. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,630	5,540	18,300	10,500	12,100	8,740	22,000	20,500	21,800	80,600	6,160	5,340
2	2,060	5,640	15,500	16,100	12,800	9,720	39,900	21,200	20,500	79,600	9,020	493
3	2,030	6,460	13,200	18,400	28,900	8,010	55,800	21,600	19,700	79,000	17,100	1,990
4	2,440	8,380	11,300	17,100	36,300	8,380	55,500	20,100	16,200	70,600	7,500	6,730
5	3,190	6,530	11,500	15,400	37,600	9,460	48,300	20,000	10,400	65,900	4,140	4,650
6	2,470	8,880	14,300	12,600	31,600	9,910	41,500	19,200	11,700	50,900	6,040	3,640
7	5,570	8,190	20,000	9,860	28,500	12,000	37,400	16,700	13,700	38,300	5,970	4,520
8	8,220	9,540	26,200	10,300	25,500	13,200	32,800	14,300	17,000	34,200	5,540	2,240
9	6,610	15,100	19,400	6,230	23,600	21,600	27,200	13,600	12,800	31,200	6,610	2,240
10	5,970	22,500	21,100	9,240	14,400	27,100	27,400	14,000	6,200	22,800	6,060	2,940
11	3,760	18,900	17,800	10,300	12,400	23,700	28,500	21,400	10,700	18,500	5,710	4,450
12	3,410	14,400	14,800	11,200	12,600	22,800	25,200	24,300	10,600	15,200	3,330	3,730
13	5,520	11,600	14,200	9,030	11,400	40,200	23,500	21,700	12,100	15,900	5,690	2,160
14	4,120	12,100	15,600	7,260	10,900	56,100	22,500	19,700	15,000	11,400	4,830	5,120
15	2,530	12,600	13,100	7,330	13,700	43,900	17,000	17,600	14,200	13,000	4,900	2,200
16	4,130	9,420	11,600	9,640	15,500	41,000	18,000	21,100	13,600	11,400	5,510	1,110
17	5,300	9,970	6,080	9,930	13,000	53,500	20,200	23,000	15,700	11,100	2,830	5,060
18	4,950	6,300	8,780	10,300	10,800	83,300	27,000	22,300	25,400	10,400	2,760	6,430
19	5,610	4,610	9,000	8,960	10,900	79,700	31,400	23,500	20,700	8,860	2,560	7,370
20	5,420	9,450	10,900	11,600	11,900	65,000	28,600	20,200	13,800	7,360	4,070	7,930
21	2,550	16,500	11,600	20,000	12,500	55,800	26,500	29,900	15,900	9,750	4,210	9,050
22	1,740	14,200	11,300	18,800	12,900	43,400	23,900	46,700	13,300	4,760	3,440	4,910
23	2,350	8,780	12,200	27,400	13,000	32,500	24,700	54,200	14,500	5,660	3,930	6,970
24	2,540	7,910	11,800	41,400	13,300	20,600	29,000	44,200	15,600	5,460	3,950	8,610
25	3,780	7,470	10,900	43,500	7,360	22,500	28,100	33,200	13,500	6,130	1,260	8,300
26	2,950	12,900	9,860	36,000	10,400	25,100	27,100	26,500	10,900	4,520	1,300	6,250
27	3,270	29,100	10,100	25,200	12,200	31,100	25,300	23,400	12,400	6,300	3,740	5,640
28	2,740	25,800	11,900	18,900	10,400	33,200	20,800	21,400	13,600	7,450	4,120	5,460
29	3,690	22,400	8,240	18,900	------	30,500	23,100	19,000	14,700	2,840	4,240	4,860
30	6,780	18,800	9,570	15,400	------	20,400	21,900	20,500	37,100	5,440	6,040	1,370
31	7,120	------	8,750	14,800	------	18,900	------	22,600	------	8,130	6,850	------
TOTAL	124,450	369,970	408,880	501,580	466,460	971,320	880,100	737,600	463,300	742,660	159,430	141,763
MEAN	4,015	12,330	13,190	16,180	16,660	31,330	29,340	23,790	15,440	23,960	5,143	4,725
MAX	8,220	29,100	26,200	43,500	37,600	83,300	55,800	54,200	37,100	80,600	17,100	9,050
MIN	1,630	4,610	6,080	6,230	7,360	8,010	17,000	13,600	6,200	2,840	1,260	493
MEAN†	4,209	12,720	12,520	15,460	14,770	31,370	31,740	24,620	17,270	22,250	4,860	4,419
CFSM†	.59	1.78	1.75	2.16	2.06	4.38	4.43	3.44	2.41	3.11	.68	.62
IN†	.68	1.98	2.01	2.49	2.15	5.05	4.95	3.96	2.69	3.58	.78	.69

CAL YR 1972 TOTAL 4,899,546 MEAN 13,390 MAX 75,400 MIN 534 MEAN† 13,460 CFSM† 1.88 IN† 25.58
WTR YR 1973 TOTAL 5,967,513 MEAN 16,350 MAX 83,300 MIN 493 MEAN† 16,360 CFSM† 2.28 IN† 31.01

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Tully Reservoir on East Branch Tully River listed on page 215.

01167800 Beaver Brook at Wilmington, Vt.

LOCATION.--Lat 42°51'38", long 72°51'04", Windham County, on right bank 20 ft (6 m) downstream from bridge on State Highway 9, 1.0 mi (1.6 km) southeast of Wilmington, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--6.38 mi² (16.52 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (475 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 15.0 ft³/s (0.425 m³/s), 31.93 in/yr (811 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,140 ft³/s (32.3 m³/s) June 30 (gage height, 8.61 ft or 2.624 m), from rating curve extended above 160 ft³/s (4.53 m³/s), on basis of slope-area measurement of peak flow; minimum, 0.47 ft³/s (0.013 m³/s) Sept. 13.

Period of record: Maximum discharge, 1,140 ft³/s (32.3 m³/s) June 30, 1973 (gage height, 8.61 ft or 2.624 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 8.73 ft (2.661 m) Jan. 19, 1965 (ice jam); minimum discharge, 0.06 ft³/s (0.002 m³/s) Aug. 1, 1965.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report. Recording rain gage at station since Apr. 1, 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1972: 1963(M), 1964(P), 1967-68(P), 1969-70, 1971(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	5.5	22	96	11	6.0	83	16	16	91	.97	1.4
2	1.6	13	18	53	80	7.0	210	14	12	36	46	1.1
3	1.4	32	17	30	150	8.9	72	14	9.3	21	17	.97
4	1.3	17	15	23	57	14	49	15	8.4	24	8.3	.80
5	1.2	13	15	21	30	22	45	12	8.4	35	4.7	.98
6	1.2	11	59	17	20	17	33	11	7.6	21	2.4	1.1
7	56	10	74	12	17	15	30	9.3	6.3	14	2.0	1.2
8	41	47	41	10	15	43	27	8.0	5.2	10	1.4	.97
9	18	122	54	11	13	43	26	16	4.6	8.0	1.2	.88
10	10	38	39	11	11	32	26	16	3.6	6.9	1.4	.80
11	6.0	24	30	10	10	25	22	61	2.7	17	13	.64
12	5.0	21	21	9.7	9.0	84	19	32	18	7.4	7.7	.64
13	5.5	17	32	9.4	9.6	88	16	23	36	5.7	7.1	.55
14	4.5	19	24	9.1	9.6	51	18	18	18	4.9	3.7	.55
15	6.0	19	20	8.9	9.5	39	22	16	9.3	4.9	5.7	.80
16	5.6	16	17	8.8	8.5	74	31	45	6.8	5.2	7.7	.80
17	5.0	14	15	8.7	8.0	271	45	24	8.4	4.3	4.7	.80
18	4.5	13	14	10	9.4	117	40	113	6.3	3.5	3.1	1.2
19	4.0	13	13	15	9.0	58	32	56	5.9	2.9	2.3	1.4
20	3.6	59	12	80	8.5	41	24	36	4.6	2.4	2.1	1.1
21	3.3	35	12	30	7.8	32	19	191	4.3	3.3	1.7	.97
22	3.1	21	11	20	7.2	22	17	59	4.3	3.5	1.6	1.1
23	3.0	17	11	100	6.8	17	15	35	4.3	2.4	1.4	4.5
24	3.3	16	10	45	6.5	17	12	24	17	1.7	1.3	3.3
25	3.3	15	10	30	6.1	20	11	18	25	1.4	1.1	4.7
26	2.7	129	9.7	23	5.8	67	15	16	19	1.4	.88	2.7
27	3.6	64	9.7	20	5.6	52	23	14	27	3.7	.88	2.0
28	4.3	35	9.7	17	5.9	33	48	14	54	2.7	.88	1.7
29	11	35	10	15	------	26	27	25	120	1.7	.80	1.4
30	10	24	10	13	------	24	19	17	593	1.4	.72	1.2
31	6.8	------	33	12	------	30	------	27	------	1.1	.88	------
TOTAL	237.8	914.5	699.1	778.6	546.8	1,395.9	1,076	995.3	1,063.3	349.4	154.61	42.25
MEAN	7.67	30.5	22.2	25.1	19.5	45.0	35.9	32.1	35.4	11.3	4.99	1.41
MAX	56	129	74	100	150	271	210	191	593	91	46	4.7
MIN	1.2	5.5	9.7	8.7	5.6	6.0	11	8.0	2.7	1.1	.72	.55
CFSM	1.20	4.78	3.48	3.93	3.06	7.05	5.63	5.03	5.55	1.77	.78	.22
IN.	1.39	5.33	4.02	4.54	3.19	8.14	6.27	5.80	6.20	2.04	.90	.25

CAL YR 1972 TOTAL 7,756.20 MEAN 21.2 MAX 220 MIN .67 CFSM 3.32 IN 45.22
WTR YR 1973 TOTAL 8,243.56 MEAN 22.6 MAX 593 MIN .55 CFSM 3.54 IN 48.07

PEAK DISCHARGE (BASE, 230 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1600	4.39	256	4-1	2345	5.05	377
2-2	-	-	†300	5-21	0600	5.60	485
3-17	1700	6.22	611	6-30	0600	8.61	1,140

† About.

01168500 Deerfield River at Charlemont, Mass.

LOCATION.--Lat 42°37'33", long 72°51'20", Franklin County, on left bank 0.8 mi (1.3 km) east of Charlemont, 2.5 mi (4.0 km) downstream from Chickley River, and at mile 24.5 (kilometre 39.4).

DRAINAGE AREA.--362 mi² (938 km²).

PERIOD OF RECORD.--June 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 517.36 ft (157.691 m) above mean sea level.

AVERAGE DISCHARGE.--60 years, 885 ft³/s (25.06 m³/s) 33.20 in/yr (843 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,500 ft³/s (326 m³/s) Mar. 17 (gage height, 8.84 ft or 2.694 m); minimum daily, 57 ft³/s (1.61 m³/s) Oct. 3.

Period of record: Maximum discharge, 56,300 ft³/s (1,590 m³/s) Sept. 21, 1938 (gage height, 20.17 ft or 6.148 m, from floodmarks), from rating curve extended above 31,000 ft³/s (878 m³/s) on basis of slope-area and contracted-opening measurements at gage heights 17.75 and 20.17 ft (5.410 and 6.148 m); minimum daily, 5 ft³/s (0.14 m³/s) June 17, 1921.

REMARKS.--Records good. Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 215), and by several powerplants above station.

REVISIONS (WATER YEARS).--WSP 781: 1915(M). WSP 1301: 1918(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	294	1,550	2,630	1,700	965	1,100	936	1,360	4,010	302	366
2	63	276	1,380	2,230	1,990	919	4,980	517	1,140	2,460	1,290	139
3	57	560	842	2,250	4,910	595	3,420	653	328	2,170	1,220	322
4	151	306	910	2,240	3,110	761	2,250	582	595	2,350	488	578
5	255	229	1,430	2,160	2,470	1,290	2,920	588	757	2,730	191	802
6	271	202	1,810	1,590	2,230	1,530	2,640	396	815	2,350	373	474
7	335	468	2,450	1,000	1,970	1,470	2,320	404	757	2,020	353	411
8	550	836	2,110	1,300	1,740	2,010	2,150	426	820	1,660	430	217
9	153	1,760	2,140	1,230	1,520	2,390	1,900	418	491	1,470	436	79
10	252	1,050	1,960	1,230	1,210	2,160	1,690	501	236	1,330	525	412
11	221	496	1,900	1,380	910	1,900	1,650	1,320	459	1,190	516	271
12	231	670	1,700	1,270	1,220	2,580	1,270	1,530	590	1,140	322	450
13	173	656	1,830	1,210	1,520	3,720	989	615	1,670	670	290	357
14	352	760	1,780	416	1,790	2,300	749	1,140	1,750	484	321	335
15	253	696	1,570	1,030	1,790	2,360	774	1,070	1,020	146	418	234
16	744	689	1,610	1,270	1,770	2,940	751	1,350	230	458	521	102
17	743	622	1,460	1,330	1,610	6,810	926	1,260	336	296	400	304
18	713	359	1,500	1,290	1,320	5,360	753	1,840	285	379	229	453
19	662	297	1,450	1,390	1,130	3,170	1,030	2,060	407	276	144	417
20	733	1,322	1,480	2,110	1,170	2,730	755	1,910	437	468	334	455
21	216	1,480	1,420	1,290	1,230	2,500	936	3,420	422	185	314	312
22	83	1,020	1,430	1,400	1,140	1,350	631	2,550	427	121	339	230
23	159	979	1,400	3,860	1,230	1,950	776	2,390	214	284	316	148
24	365	1,020	1,320	3,170	1,040	2,270	671	2,320	194	240	292	257
25	103	992	1,310	2,400	379	2,000	751	2,210	972	258	154	359
26	156	1,970	1,370	2,260	583	2,070	740	2,150	765	469	72	338
27	226	2,010	1,360	2,160	955	2,120	939	2,100	603	394	230	256
28	101	2,090	1,290	2,110	966	1,930	1,720	2,080	621	333	292	272
29	114	2,260	1,310	2,070	------	1,640	1,170	2,440	761	169	401	189
30	367	2,030	817	1,980	------	1,420	1,090	1,760	5,240	319	384	68
31	172	------	910	1,960	------	1,110	------	1,490	------	275	414	------
TOTAL	9,474	29,012	46,888	55,404	44,523	53,582	44,220	44,326	25,590	31,104	12,311	9,627
MEAN	306	967	1,513	1,787	1,590	1,728	1,474	1,430	853	1,003	397	321
MAX	795	2,260	2,450	3,860	4,910	6,810	4,980	3,420	5,240	4,010	1,290	802
MIN	57	202	817	416	379	595	631	396	194	121	72	68
MEAN†	315	1,389	1,193	1,477	1,135	2,630	2,120	1,588	1,008	658	259	81.0
CFSM †	.87	3.84	3.30	4.08	3.14	7.27	5.86	4.39	2.78	1.82	.72	.22
IN. †	1.00	4.28	3.80	4.70	3.27	8.38	6.53	5.06	3.11	2.10	.83	.25

CAL YR 1972 TOTAL 446,165 MEAN 1,219 MAX 7,050 MIN 57 MEAN† 1,228 CFSM† 3.39 IN† 46.20
WTR YR 1973 TOTAL 420,690 MEAN 1,152 MAX 6,810 MIN 57 MEAN† 1,155 CFSM† 3.19 IN† 43.30

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

01169000 North River at Shattuckville, Mass.

LOCATION.--Lat 42°38'18", long 72°43'32", Franklin County, on right bank in Shattuckville, 1.2 mi (1.9 km) south of Griswoldville and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--88.4 mi² (229.0 km²).

PERIOD OF RECORD.--October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 458.36 ft (139.708 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 177 ft³/s (5.013 m³/s), 27.19 in/yr (691 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,360 ft³/s (265 m³/s) June 30 (gage height, 9.41 ft or 2.868 m); minimum, 16 ft³/s (0.45 m³/s) Oct. 4, 5, 6; minimum daily, 17 ft³/s (0.48 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 13,200 ft³/s (374 m³/s) Oct. 15, 1955 (gage height, 10.37 ft or 3.161 m), from rating curve extended above 5,700 ft³/s (161 m³/s) on basis of computation of flow over dam at gage height 9.62 ft (2.932 m); minimum daily, 5.1 ft³/s (0.14 m³/s) Oct. 3, 1948.

REMARKS.--Records good except those for winter period, which are fair. Diurnal fluctuation at times caused by mill above station; because storage capacity is small, daily flows are not affected appreciably. Prior to 1950, greater regulation by mill.

REVISIONS (WATER YEARS).--WSP 1111: 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	43	271	1,270	160	115	449	224	215	1,380	36	44
2	22	74	237	625	449	112	3,340	206	200	585	793	36
3	19	181	218	382	1,780	134	1,150	232	180	396	339	38
4	18	105	211	323	652	203	685	304	155	476	149	28
5	17	89	193	292	436	339	799	227	210	620	96	24
6	17	91	360	221	339	307	680	198	210	412	74	29
7	216	97	658	175	307	262	630	177	165	283	62	35
8	198	240	314	190	283	530	625	161	153	224	49	27
9	76	630	449	175	243	595	467	251	129	179	49	24
10	46	240	445	165	198	503	517	323	122	151	47	21
11	39	155	378	160	213	412	560	570	102	134	74	20
12	37	151	268	155	179	781	400	326	174	124	90	21
13	41	129	339	155	190	1,130	356	260	508	110	60	18
14	36	155	301	155	180	727	332	218	323	94	49	18
15	34	170	237	155	180	600	326	246	179	100	56	24
16	33	149	229	149	172	905	326	436	138	115	77	24
17	32	135	218	147	143	3,230	336	271	141	90	62	22
18	30	117	210	206	143	1,350	314	1,310	119	81	47	24
19	28	108	206	254	160	730	280	526	115	72	43	32
20	27	550	191	715	151	530	240	972	99	68	41	26
21	27	374	172	382	145	424	213	1,560	91	79	39	21
22	28	216	172	307	143	367	198	600	115	83	37	20
23	38	163	172	1,050	136	326	177	416	104	64	35	30
24	43	159	167	630	147	317	163	336	289	56	33	34
25	27	141	161	404	131	336	151	295	641	50	30	47
26	25	1,040	159	329	119	775	211	265	240	48	29	36
27	25	691	157	292	110	641	295	243	186	57	28	28
28	25	400	151	268	115	449	600	280	363	59	28	27
29	63	412	132	235	------	374	360	476	1,010	49	26	24
30	85	292	131	210	------	336	265	290	5,820	43	24	21
31	53	------	320	170	------	367	------	240	------	39	22	------
TOTAL	1,436	7,497	7,827	10,346	7,604	18,207	15,445	12,439	12,496	6,321	2,624	823
MEAN	46.3	250	252	334	272	587	515	401	417	204	84.6	27.4
MAX	216	1,040	658	1,270	1,780	3,230	3,340	1,560	5,820	1,380	793	47
MIN	17	43	131	147	110	112	151	161	91	39	22	18
CFSM	.52	2.83	2.85	3.78	3.08	6.64	5.83	4.54	4.72	2.31	.96	.31
IN.	.60	3.15	3.29	4.35	3.20	7.66	6.50	5.23	5.26	2.66	1.10	.35

CAL YR 1972 TOTAL 99,191 MEAN 271 MAX 2,810 MIN 15 CFSM 3.07 IN 41.74
WTR YR 1973 TOTAL 103,065 MEAN 282 MAX 5,820 MIN 17 CFSM 3.19 IN 43.37

PEAK DISCHARGE (BASE, 2,200 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0330	6.38	2,880	6-24	2315	6.23	2,670
3-17	1830	8.19	6,200	6-30	0830	9.41	9,360
4-2	0430	7.63	5,020	8-2	1300	5.96	2,320
5-20	2300	6.99	3,850				

01169900 South River near Conway, Mass.

LOCATION.--Lat 42°32'31", long 72°41'39", Franklin County, on left bank at upstream side of Reeds Bridge just off Bardwell Road, 2.2 mi (3.5 km) north of Conway, and 2.6 mi (4.2 km) upstream from mouth.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

RECORDS AVAILABLE.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (140 m) from topographic map. Prior to Oct. 7, 1970, at downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--7 years, 53.6 ft³/s (1.518 m³/s), 30.33 in/yr (770 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,680 ft³/s (47.6 m³/s) Mar. 17 (gage height, 6.83 ft or 2.082 m), from rating curve extended as explained below; minimum, 6.1 ft³/s (0.17 m³/s) Oct. 4, 6.

Period of record: Maximum discharge, 2,150 ft³/s or 60.9 m³/s (revised) Apr. 23, 1969 (gage height, 7.40 ft or 2.256 m), from rating curve extended above 390 ft³/s (11.0 m³/s) on basis of slope-area measurement at gage height 7.77 ft (2.368 ft); minimum, 3.0 ft³/s (0.085 m³/s) Aug. 21, 22, Sept. 2, 3, 1966.

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in WRD Mass., N.H., R.I., Vt., 1968-72.

Water year	Date	Discharge (ft³/s)	Gage height (ft)
1968	Apr. 25, 1968	1,440	6.48
1969	Apr. 23, 1969	2,150	7.40
1970	Feb. 10, 1970	1,590	6.70
1971	Aug. 28, 1971	1,030	5.87
1972	June 30, 1972	1,640	6.77

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--The figures of peak discharge for the water years 1968-70, 1972 have been revised as shown in the following table. They supersede figures published in WRD Mass., N.H., R.I., Vt. 1968-70, 1972.

REVISED PEAK DISCHARGE.--1968: Apr. 25 (0200) 1,440 ft³/s (6.48 ft); June 28 (1145) 900 ft³/s (5.65 ft); Sept. 11 (1115) 972 ft³/s (5.77 ft).

1969: Dec. 4 (2030) 1,020 ft³/s (5.85 ft); Apr. 23 (0015) 2,150 ft³/s (7.40 ft).

1970: Nov. 8 (0345) 859 ft³/s (5.58 ft); Nov. 20 (0545) 960 ft³/s (5.75 ft); Dec. 11 (0745) 1,300 ft³/s (6.29 ft); Feb. 10 (2115) 1,590 ft³/s (6.70 ft); Apr. 2 (1915) 1,180 ft³/s (6.11 ft).

1972: Apr. 20 (1415) 854 ft³/s (5.57 ft); May 31 (1615) 1,200 ft³/s (6.14 ft); June 30 (1445) 1,640 ft³/s (6.77 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	18	98	279	58	36	201	60	65	151	11	12
2	7.2	32	81	121	250	38	755	56	57	89	343	11
3	6.4	53	79	89	407	42	252	68	51	68	92	11
4	6.1	31	75	83	139	78	239	77	48	188	55	10
5	6.4	32	72	81	105	87	293	59	47	157	36	9.6
6	6.4	37	206	79	93	74	227	55	44	94	29	25
7	203	36	154	74	86	71	189	50	42	67	27	22
8	57	161	107	70	81	179	158	47	39	54	24	14
9	25	174	142	66	69	139	132	82	35	45	20	12
10	18	55	125	64	64	119	327	73	33	39	20	10
11	18	46	107	60	60	105	187	177	31	35	20	10
12	18	52	95	60	56	228	137	91	34	31	21	9.6
13	19	43	90	60	58	262	117	75	63	28	17	8.2
14	17	60	81	58	56	164	107	65	54	27	15	8.7
15	16	61	71	58	54	169	98	61	35	29	42	14
16	15	58	70	56	54	213	90	119	31	29	48	12
17	14	48	68	54	52	760	83	72	30	23	30	9.6
18	13	43	64	80	50	334	78	231	28	20	24	11
19	13	42	62	120	49	170	72	114	29	18	22	13
20	12	198	60	180	48	140	74	96	25	17	20	9.2
21	12	82	57	151	48	120	63	416	23	36	20	8.8
22	11	58	66	196	48	108	61	143	22	26	17	8.7
23	11	58	66	239	44	96	60	111	20	19	17	11
24	11	53	58	121	50	90	56	96	19	15	16	11
25	10	49	57	90	45	90	52	85	18	14	15	18
26	10	501	57	79	40	219	72	78	17	13	15	12
27	10	144	56	74	38	129	116	73	16	23	14	10
28	12	124	56	69	35	98	169	82	30	19	13	9.1
29	29	114	56	68	------	86	81	105	168	20	12	8.7
30	27	92	58	66	------	81	68	75	690	14	12	8.3
31	20	------	111	60	------	83	------	82	------	12	11	------
TOTAL	664.5	2,555	2,605	3,005	2,237	4,608	4,614	3,074	1,844	1,420	1,078	347.5
MEAN	21.4	85.2	84.0	96.9	79.9	149	154	99.2	61.5	45.8	34.8	11.6
MAX	203	501	206	279	407	760	755	416	690	188	343	25
MIN	6.1	18	56	54	35	36	52	47	16	12	11	8.2
CFSM	.89	3.55	3.50	4.04	3.33	6.21	6.42	4.13	2.56	1.91	1.45	.48
IN.	1.03	3.96	4.08	4.66	3.47	7.14	7.15	4.76	2.86	2.20	1.67	.54

CAL YR 1972 TOTAL 26,673.5 MEAN 72.9 MAX 537 MIN 5.3 CFSM 3.04 IN 41.34
WTR YR 1973 TOTAL 28,052.0 MEAN 76.9 MAX 760 MIN 6.1 CFSM 3.20 IN 43.48

PEAK DISCHARGE (BASE, 660 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1645	5.38	749	4-2	0030	6.15	1,210
11-9	0015	5.35	733	5-18	1215	5.24	675
11-26	0915	6.08	1,160	5-21	0545	5.77	972
2-2	2400	5.65	900	6-30	1545	6.30	1,310
3-17	1745	6.83	1,680	8-2	1130	6.72	1,600

01170000 Deerfield River near West Deerfield, Mass.

LOCATION.--Lat 42°32'09", long 72°39'14", Franklin County, on right bank 0.4 mi (0.6 km) downstream from South River, 1.2 mi (1.9 km) west of West Deerfield, 2.5 mi (4.0 km) west of Deerfield, and 9.2 mi (14.8 km) upstream from mouth.

DRAINAGE AREA.--558 mi² (1,445 km²).

PERIOD OF RECORD.--March to November 1904, January 1905, March to December 1905, October 1940 to current year. Published as "at Deerfield" 1904-5.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (47 m) from topographic map. Prior to Dec. 16, 1905, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum.

AVERAGE DISCHARGE.--33 years (1940-73), 1,252 ft³/s (35.46 m³/s), 30.47 in/yr (774 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 17,100 ft³/s (484 m³/s) Mar. 17 (gage height, 8.73 ft or 2.661 m); minimum daily, 69 ft³/s (1.95 m³/s) Oct. 3, 4.

Period of record: Maximum discharge, 48,500 ft³/s (1,370 m³/s) Dec. 31, 1948 (gage height, 15.43 ft or 4.703 m); minimum daily, 28 ft³/s (0.79 m³/s) July 29, 1962.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 215), and by several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	341	3,100	4,500	2,140	1,230	1,640	1,500	1,920	7,000	396	483
2	131	609	2,600	3,400	2,770	1,140	5,230	925	1,700	4,000	2,970	263
3	69	840	1,300	3,030	7,440	1,050	5,840	1,050	1,050	3,600	2,260	370
4	69	594	1,500	2,800	4,570	1,300	3,790	1,300	753	3,900	1,010	551
5	233	471	2,200	2,680	3,330	1,940	4,530	1,010	1,100	4,500	556	1,100
6	434	440	2,600	2,090	2,940	2,270	4,250	770	1,340	3,900	396	643
7	1,270	591	5,000	1,420	2,550	2,130	3,670	760	1,070	3,200	390	512
8	1,480	1,070	3,700	1,270	2,340	3,010	3,440	790	1,150	2,600	558	376
9	288	3,260	3,800	1,520	2,080	3,490	2,833	1,160	967	2,300	606	194
10	220	1,690	3,800	1,550	1,540	3,300	2,860	1,090	539	2,000	698	404
11	326	836	3,300	1,810	1,280	2,810	2,960	2,160	658	1,900	648	358
12	383	856	2,800	2,060	1,370	3,620	2,210	2,310	676	1,800	617	545
13	263	827	2,800	1,810	1,880	6,010	1,800	1,300	2,290	1,100	472	330
14	414	1,310	3,090	1,120	2,160	4,590	1,550	1,350	2,420	1,200	363	496
15	353	1,190	2,800	1,430	2,240	3,600	1,380	1,650	1,820	650	722	324
16	610	977	2,600	1,960	2,150	4,390	1,310	2,000	537	750	785	196
17	913	915	1,900	1,960	1,460	9,740	1,380	2,100	487	540	517	312
18	905	672	2,100	1,780	1,630	10,000	1,500	3,010	628	620	470	557
19	808	636	2,300	1,830	1,580	4,850	1,350	3,490	477	350	312	458
20	746	2,150	2,250	3,450	1,600	3,840	958	2,700	592	560	392	580
21	426	2,440	2,200	2,060	1,540	3,340	1,340	5,650	594	609	457	368
22	153	1,480	2,150	1,920	1,530	2,370	1,170	4,270	615	378	439	339
23	217	1,320	2,100	5,140	1,520	2,380	919	3,300	589	290	395	241
24	527	1,280	1,900	4,520	1,520	2,860	1,010	3,100	336	486	391	249
25	195	1,330	1,850	3,210	803	2,720	1,050	2,870	1,680	238	367	536
26	206	3,810	1,900	2,830	723	3,360	1,190	2,750	1,380	569	135	404
27	205	4,400	1,800	2,680	1,180	3,110	1,520	2,660	886	548	211	355
28	258	3,600	1,600	2,580	1,180	2,560	2,390	2,620	1,130	454	386	318
29	265	4,200	1,700	2,410	------	2,070	2,240	3,180	2,140	437	448	299
30	405	3,500	1,300	2,360	------	2,100	1,420	2,730	9,870	423	531	157
31	354	------	1,500	2,340	------	1,700	------	2,110	------	311	484	------
TOTAL	13,734	47,631	75,450	75,590	59,326	102,990	69,627	67,665	41,064	51,412	19,382	12,338
MEAN	427	1,588	2,434	2,438	2,119	3,322	2,321	2,183	1,369	1,658	625	411
MAX	1,480	4,400	5,000	5,140	7,440	10,000	6,700	5,650	9,870	7,000	2,970	1,130
MIN	69	341	1,300	1,120	723	1,050	919	760	336	238	135	157
MEAN†	436	2,043	2,114	2,128	1,661	3,740	2,966	2,340	1,514	1,313	487	171
CFSM†	.78	3.66	3.79	3.81	2.98	6.70	5.32	4.19	2.71	2.35	.87	.31
IN.†	.90	4.09	4.37	4.40	3.10	7.73	5.93	4.84	3.03	2.71	1.01	.34

CAL YR 1972 TOTAL 638,081 MEAN 1,743 MAX 11,800 MIN 69 MEAN† 1,753 CFSM† 3.14 IN† 42.77
WTR YR 1973 TOTAL 635,709 MEAN 1,742 MAX 10,000 MIN 69 MEAN† 1,744 CFSM† 3.13 IN† 42.44

† Adjusted for change in contents in Somerset and Harriman Reservoirs.
NOTE.--No gage-height record Nov. 27 to Jan. 1.

01170100 Green River near Colrain, Mass.

LOCATION.--Lat 42°42'12", long 72°40'16", Franklin County, on right bank 0.5 mi (0.8 km) upstream from bridge on West Leyden Road and 2.5 mi (4.0 km) northeast of Colrain.

DRAINAGE AREA.--41.4 mi² (107.2 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (133 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 98.2 ft³/s (2.781 m³/s), 32.21 in/yr (818 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,300 ft³/s (93.5 m³/s) June 30 (gage height, 7.28 ft or 2.219 m), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of slope-area measurement at gage height 8.2 ft (2.50 m); minimum, 7.6 ft³/s (0.22 m³/s) Oct. 5, 6.

Period of record: Maximum discharge, 3,300 ft³/s (93.5 m³/s) June 30, 1973 (gage height, 7.28 ft or 2.219 m), from rating curve extended above 890 ft³/s (25.2 m³/s) on basis of slope-area measurement at gage height 8.2 ft (2.50 m); minimum, 1.9 ft³/s (0.054 m³/s) Aug. 1, 1968.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WRD Mass., N.H., R.I., Vt., 1971: 1968(M), 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	20	140	496	85	50	307	117	115	617	19	18
2	10	28	122	275	362	49	1,410	104	99	354	340	14
3	9.0	71	108	167	664	54	496	124	83	248	156	13
4	8.6	43	108	149	307	77	385	145	75	259	68	12
5	7.9	38	109	128	213	128	408	106	85	315	48	11
6	7.6	38	152	94	176	120	362	94	76	216	38	13
7	176	40	320	76	152	100	336	86	68	154	32	14
8	113	124	160	84	135	230	307	79	63	117	28	12
9	37	426	200	82	120	259	241	126	57	97	26	10
10	24	131	190	80	111	223	286	137	51	82	23	9.5
11	20	82	170	78	109	184	255	294	45	71	29	9.5
12	19	72	120	76	100	332	203	187	76	64	37	9.2
13	20	63	130	76	90	480	181	142	290	56	29	8.8
14	18	72	110	76	84	340	170	109	176	53	25	9.2
15	17	83	100	74	88	290	173	100	86	51	26	11
16	16	68	98	72	82	421	179	244	66	52	35	11
17	16	64	94	70	77	1,260	193	154	68	44	26	10
18	15	57	92	90	66	724	179	460	57	39	23	11
19	14	55	90	130	66	385	157	367	55	36	21	15
20	14	294	86	300	70	302	131	226	48	33	20	11
21	13	206	80	200	67	244	109	978	60	38	19	9.5
22	13	108	84	162	67	206	100	394	85	36	17	9.2
23	13	72	80	475	63	181	92	259	62	30	17	15
24	14	76	75	282	58	179	83	203	66	28	16	14
25	14	70	70	190	58	190	76	170	173	25	15	17
26	13	485	66	149	54	446	100	149	88	24	14	14
27	13	408	62	137	52	358	149	133	79	28	14	12
28	13	213	58	126	48	251	358	128	142	27	13	11
29	28	213	52	110	------	209	213	230	838	23	13	9.5
30	35	147	71	100	------	187	147	162	2,320	21	12	8.8
31	23	------	173	90	------	197	------	149	------	20	13	------
TOTAL	769.1	3,867	3,570	4,694	3,624	8,656	7,786	6,356	5,652	3,258	1,212	352.2
MEAN	24.8	129	115	151	129	279	260	205	188	105	39.1	11.7
MAX	176	485	320	496	664	1,260	1,410	978	2,320	617	340	18
MIN	7.6	20	52	70	48	49	76	79	45	20	12	8.8
CFSM	.60	3.12	2.78	3.65	3.12	6.74	6.28	4.95	4.54	2.54	.94	.28
IN.	.69	3.47	3.21	4.22	3.26	7.78	7.00	5.71	5.08	2.93	1.09	.32

CAL YR 1972 TOTAL 43,725.3 MEAN 119 MAX 1,040 MIN 7.3 CFSM 2.87 IN 39.29
WTR YR 1973 TOTAL 49,796.3 MEAN 136 MAX 2,320 MIN 7.6 CFSM 3.29 IN 44.74

PEAK DISCHARGE (BASE, 800 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1545	4.98	1,080	4-2	0315	6.50	2,410
2-2	2015	5.16	1,200	5-21	0715	6.27	2,180
3-17	1915	6.66	2,590	6-30	1300	7.28	3,300

01170500 Connecticut River at Montague City, Mass.

LOCATION.--Lat 42°34'48", long 72°34'30", Franklin County, on left bank 75 ft (23 m) downstream from Penn Central Railroad bridge at Montague City, 1,000 ft (300 m) downstream from Deerfield River, and at mile 119.0 (kilometre 191.5).

DRAINAGE AREA.--7,865 mi² (20,370 km²).

PERIOD OF RECORD.--March 1904 to current year. Prior to October 1929, published as "at Sunderland." Records published for both sites October 1929 to September 1932.

GAGE.--Water-stage recorder. Datum of gage is 99.87 ft (30.440 m) above mean sea level. Prior to Oct. 1, 1917, nonrecording gage; Oct. 1, 1917, to Oct. 8, 1921, water-stage recorder used for low stages, nonrecording gage otherwise; and Oct. 9, 1921, to Sept. 30, 1932, water-stage recorder, at site 9 mi (14 km) downstream at datum 1.00 ft (0.305 m) lower. Since Oct. 1, 1929, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--69 years, 13,580 ft³/s (384.6 m³/s), 23.45 in/yr (596 mm/yr), adjusted for storage since October 1923.

EXTREMES.--Current year: Maximum discharge, 98,600 ft³/s (2,790 m³/s) July 1 (gage height, 31.65 ft or 9.647 m); minimum daily, 992 ft³/s (28.1 m³/s) Sept. 2.

Period of record: Maximum discharge, 236,000 ft³/s (6,680 m³/s) Mar. 19, 1936 (gage height, 49.2 ft or 15.00 m, from floodmarks); minimum daily, 215 ft³/s (6.09 m³/s) Aug. 31, Sept. 1, 1958.

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 215), and other reservoirs (combined usable capacity, about 42,200,000,000 ft³ or 1,200,000,000 m³).

REVISIONS (WATER YEARS).--WSP 471: 1904-17. WSP 741: 1930-32. WSP 781: 1928(M). WSP 891: Drainage area. WSP 1051: 1905, 1909-10, 1912-14, 1920, 1922-23, 1925-26, 1928, drainage area at Sunderland. WSP 1301: 1905(M), 1914-19(M), 1930-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,230	6,420	24,100	16,700	17,000	10,300	25,130	24,400	25,200	91,600	7,640	6,180
2	2,730	6,780	21,100	22,300	18,000	11,100	54,600	24,300	23,700	91,800	11,800	992
3	2,270	8,650	18,000	24,600	37,300	10,600	67,200	24,800	22,300	80,900	21,800	2,550
4	2,380	9,710	14,800	23,100	42,100	10,600	65,200	23,000	19,300	68,200	9,110	7,610
5	3,350	7,700	15,200	21,600	41,500	11,700	58,700	20,400	11,900	66,400	5,740	5,950
6	3,080	9,540	17,100	18,000	35,600	13,900	52,500	20,900	17,300	56,900	6,910	4,410
7	6,580	9,190	26,000	13,000	31,700	16,000	46,330	18,600	16,200	42,500	6,420	5,230
8	10,700	11,200	34,100	14,000	28,660	17,300	41,130	15,300	19,500	38,800	6,550	2,880
9	7,530	19,700	26,900	9,000	26,300	27,600	33,130	16,030	15,400	34,500	7,260	2,300
10	6,480	27,000	28,400	13,000	18,500	32,800	34,300	16,130	6,920	25,800	7,080	3,250
11	4,850	22,100	25,130	14,000	16,000	36,560	36,100	25,600	11,530	21,200	6,710	4,610
12	4,180	17,900	21,300	15,500	16,000	30,300	29,630	29,500	12,100	15,300	4,360	3,970
13	5,890	14,500	20,300	13,000	14,500	47,100	26,430	25,500	15,000	17,000	6,380	2,840
14	5,390	15,000	21,200	10,500	15,500	60,500	24,400	23,400	18,600	11,500	5,420	5,120
15	3,130	16,200	19,000	10,000	17,500	48,700	19,900	20,900	17,100	13,300	5,710	2,630
16	5,220	12,700	16,200	13,500	17,500	44,500	20,250	24,600	14,800	10,900	6,060	1,340
17	6,340	12,600	9,500	14,000	17,230	59,700	23,400	27,700	16,900	10,900	3,850	5,240
18	5,950	9,310	12,500	14,000	16,500	90,700	30,930	27,230	30,000	10,400	3,150	6,870
19	6,800	6,120	13,500	12,500	16,000	83,500	36,000	30,000	24,700	9,590	3,090	8,170
20	6,420	13,600	15,500	17,500	16,000	69,100	32,700	25,730	16,100	7,560	4,760	8,700
21	3,230	22,200	16,000	26,000	15,700	59,400	29,900	40,000	20,100	10,100	4,590	9,150
22	1,980	18,900	16,500	24,000	15,230	49,600	26,200	56,400	15,400	5,320	3,930	5,370
23	2,530	12,700	16,600	35,000	14,900	40,100	27,300	62,100	16,500	5,420	4,350	6,910
24	3,230	11,400	15,300	47,500	14,830	27,800	33,200	51,600	17,000	5,950	4,490	8,840
25	4,450	10,700	13,400	46,600	9,190	29,900	32,220	40,230	16,200	6,150	1,780	8,960
26	3,460	19,000	12,300	39,700	11,100	34,600	29,600	30,000	12,100	5,140	1,430	7,180
27	3,700	36,700	12,700	31,000	14,300	39,900	28,530	26,200	12,830	7,340	4,260	5,920
28	3,090	32,700	14,400	25,200	12,200	39,300	24,530	24,800	15,100	7,700	4,810	5,840
29	4,420	30,600	10,700	23,800	-------	35,500	28,630	23,900	17,700	4,340	4,800	5,330
30	7,360	25,700	12,300	20,300	-------	24,600	26,000	24,400	50,600	5,950	6,520	1,550
31	8,130	-------	11,000	19,000	-------	22,000	-------	25,700	-------	7,480	7,270	-------
TOTAL	147,050	475,520	551,000	647,900	566,490	1,129.2M	1,043.4M	870,200	548,020	795,940	188,070	155,262
MEAN	4,744	15,850	17,770	20,900	20,230	36,430	34,780	28,070	18,270	25,680	6,067	5,175
MAX	10,700	36,700	34,100	47,500	42,100	90,700	67,230	62,100	50,600	91,800	21,800	9,150
MIN	1,980	6,120	9,500	9,000	9,190	10,300	19,900	16,000	6,920	4,340	1,430	992
MEAN†	4,947	16,690	16,780	19,870	17,890	36,880	37,830	29,050	20,240	23,620	5,646	4,629
CFSM†	.63	2.12	2.13	2.53	2.27	4.69	4.81	3.69	2.57	3.00	.72	.59
IN†	.73	2.37	2.46	2.91	2.37	5.41	5.37	4.26	2.87	3.46	.83	.66

CAL YR 1972 TOTAL 6,145,512 MEAN 16,790 MAX 85,400 MIN 902 MEAN† 16,870 CFSM† 2.14 IN† 29.21
WTR YR 1973 TOTAL 7,118,052 MEAN 19,500 MAX 91,800 MIN 992 MEAN† 19,520 CFSM† 2.48 IN† 33.69

PEAK DISCHARGE (BASE, 61,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1430	25.38	65,800	5-23	1545	25.33	65,600
3-18	1915	30.71	93,400	7-1	2200	31.65	98,600
4-3	2145	26.86	73,100				

M Expressed in thousands.

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to 2 reservoirs in Deerfield River basin listed on page 215.

01171300 Fort River near Amherst, Mass.

LOCATION.--Lat 42°21'28", long 72°30'17", Hampshire County, on left bank 20 ft (6 m) upstream from Southeast Street Bridge, 250 ft (76 m) downstream from Hop Brook, and 1.3 mi (2.1 km) southeast of Amherst.

DRAINAGE AREA.--40.6 mi^2 (105.2 km^2), excludes 1.04 mi^2 (2.69 km^2) drained by Nourse Brook, flow of which is diverted from basin.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 147 ft (45 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 63.7 ft^3/s (1.804 m^3/s), 21.31 in/yr (541 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 803 ft^3/s (22.7 m^3/s) Apr. 2 (gage height, 6.18 ft or 1.884 m); minimum, 11 ft^3/s (0.31 m^3/s) Oct. 5-7, Aug. 30 to Sept. 2.

Period of record: Maximum discharge, 2,030 ft^3/s (57.5 m^3/s) Apr. 2, 1970 (gage height, 8.70 ft or 2.652 m), from rating curve extended above 690 ft^3/s (19.5 m^3/s); minimum, 1.9 ft^3/s (0.054 m^3/s) Sept. 3, 1966.

Floods of March 1936 and September 1938 reached discharges of 2,360 ft^3/s (66.8 m^3/s) and 1,640 ft^3/s (46.4 m^3/s), respectively, by computation of flow over dam 1.2 mi (1.9 km) downstream.

REMARKS.--Records good except those for period of no gage-height record and those for September, which are fair. Diversion above station for municipal supply of Amherst. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	74	443	55	49	193	95	77	209	15	11
2	14	25	75	323	70	64	600	83	69	73	73	11
3	13	48	65	150	360	75	302	93	59	51	50	12
4	12	37	68	112	387	177	204	106	53	84	35	14
5	11	32	64	112	254	193	390	90	52	142	28	13
6	11	33	137	95	179	164	260	77	45	96	23	19
7	45	28	390	72	140	137	188	69	42	53	20	24
8	51	42	164	54	123	320	146	64	39	40	18	18
9	27	100	169	46	116	355	121	93	36	32	17	16
10	18	59	172	44	100	226	297	121	32	28	16	16
11	15	38	148	42	81	177	337	196	28	25	17	17
12	16	36	102	41	70	188	172	157	30	23	16	18
13	20	33	93	38	66	232	131	114	55	22	16	16
14	18	73	89	37	65	182	112	92	53	22	15	16
15	15	127	74	39	69	155	100	81	36	21	17	27
16	14	75	70	42	68	169	93	179	31	25	27	25
17	14	46	61	44	63	265	87	127	27	22	22	20
18	13	38	54	57	53	369	84	116	25	21	17	38
19	12	34	57	77	54	179	78	110	24	20	16	49
20	12	164	58	229	60	133	73	92	26	20	15	28
21	13	135	58	140	61	112	64	465	24	40	14	22
22	13	76	96	100	70	100	61	291	26	33	14	22
23	13	46	120	449	70	93	60	152	31	27	13	24
24	13	41	100	265	61	87	69	116	26	24	12	25
25	13	39	87	160	54	83	65	95	22	22	12	31
26	13	137	86	121	51	162	80	86	20	21	12	28
27	13	174	90	105	53	162	155	80	27	30	12	24
28	13	103	81	96	46	110	257	84	102	26	12	24
29	24	77	65	68	-------	90	182	150	118	22	13	22
30	28	61	57	63	-------	84	118	112	235	20	11	22
31	21	-------	123	57	-------	84	-------	83	-------	19	11	-------
TOTAL	546	1,973	3,147	3,721	2,896	4,976	4,999	3,861	1,470	1,313	609	652
MEAN	17.6	65.8	102	170	103	161	166	125	49.0	42.4	19.6	21.7
MAX	51	174	390	449	387	369	600	465	235	209	73	49
MIN	11	18	54	37	46	49	60	64	20	19	11	11
MEAN†	18.2	66.0	102	121	104	161	167	125	49.3	43.2	20.6	22.5
CFSM†	.45	1.63	2.51	2.98	2.56	3.97	4.11	3.08	1.21	1.06	.51	.55
IN.†	.52	1.82	2.90	3.43	2.68	4.57	4.60	3.56	1.35	1.23	.59	.62

CAL YR 1972 TOTAL 30,449 MEAN 83.2 MAX 793 MIN 10 MEAN† 83.8 CFSM† 2.06 IN† 28.12
WTR YR 1973 TOTAL 30,153 MEAN 82.6 MAX 600 MIN 11 MEAN† 83.3 CFSM† 2.05 IN† 27.85

PEAK DISCHARGE (BASE, 500 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-1	1545	5.65	618	4-2	1045	6.18	803
1-23	1230	5.54	579	4-10	2045	5.45	548
3-8	2215	5.48	558	5-21	1345	5.87	695
3-18	0230	5.33	508				

† Adjusted for diversion for municipal supply of Amherst. Diversion records furnished by town of Amherst.

NOTE.--No gage-height record July 14 to Aug. 7.

01171500 Mill River at Northampton, Mass.

LOCATION.--Lat 42°19'05", long 72°39'21", Hampshire County, on right bank at Northampton, 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--October 1938 to current year. October 1938 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 140 ft (43 m) from topographic map.

AVERAGE DISCHARGE.--35 years, 93.6 ft³/s (2.651 m³/s), 24.07 in/yr (611 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,240 ft³/s (91.8 m³/s) Feb. 2 (gage height, 8.29 ft or 2.527 m); minimum, 13 ft³/s (0.37 m³/s) Oct. 3, 6.

Period of record: Maximum discharge, 6,300 ft³/s (178 m³/s) Aug. 19, 1955 (gage height, 11.78 ft or 3.591 m), from rating curve extended above 3,700 ft³/s (105 m³/s) on basis of computation of peak flow over dam; minimum, 2.2 ft³/s (0.062 m³/s) Oct. 1, 1950; minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 21, 23, 24, 1957.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow regulated by mill above station prior to 1956. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 921: 1940. WSP 1231: 1940-42(M), 1944-45(M), 1948(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	176	503	100	71	270	130	132	486	35	15
2	15	37	149	308	600	80	1,110	120	110	198	800	15
3	15	92	132	203	1,510	90	443	119	92	138	350	14
4	15	53	130	185	398	203	375	139	87	445	150	15
5	14	48	127	182	276	221	545	113	84	622	75	14
6	13	53	200	144	228	200	405	101	80	262	55	17
7	173	46	374	110	197	182	322	93	79	158	48	23
8	134	110	185	105	185	374	264	88	71	120	43	17
9	52	378	279	98	165	350	226	164	60	99	39	14
10	37	120	272	92	125	294	465	184	53	82	35	14
11	31	88	234	88	120	244	376	336	48	76	33	19
12	29	85	171	83	115	374	255	204	54	67	33	25
13	31	68	173	78	110	490	217	159	150	60	33	21
14	26	112	160	74	105	355	192	130	135	60	29	22
15	23	165	137	74	118	311	175	119	70	66	32	35
16	21	104	142	81	112	360	161	261	55	70	65	31
17	21	78	115	83	88	1,010	148	164	50	55	47	27
18	19	67	120	92	83	738	142	317	47	49	37	41
19	19	64	123	110	92	367	131	255	50	43	32	42
20	19	297	112	290	98	286	121	187	44	40	30	31
21	20	200	106	180	94	241	112	580	42	100	27	28
22	20	118	168	160	102	214	108	305	41	84	25	26
23	18	85	188	485	98	192	105	216	42	60	24	30
24	18	80	139	294	87	179	106	180	39	43	22	32
25	17	76	132	209	83	174	95	157	36	34	21	38
26	17	611	132	173	78	382	123	144	34	31	19	30
27	16	411	130	157	65	278	229	134	35	100	19	24
28	17	228	118	152	67	202	356	147	60	90	19	23
29	32	212	104	125	------	177	204	245	251	60	18	20
30	37	165	94	115	------	166	151	168	1,380	45	17	18
31	27	------	179	105	------	169	------	159	------	39	16	------
TOTAL	962	4,274	5,001	5,138	5,499	8,974	7,932	5,818	3,511	3,882	2,228	721
MEAN	31.0	142	161	166	196	289	264	188	117	125	71.9	24.0
MAX	173	611	374	503	1,510	1,010	1,110	580	1,380	622	800	42
MIN	13	23	94	74	65	71	95	88	34	31	16	14
CFSM	.59	2.69	3.05	3.14	3.71	5.47	5.00	3.56	2.22	2.37	1.36	.45
IN.	.68	3.01	3.52	3.62	3.87	6.32	5.59	4.10	2.47	2.74	1.57	.51

CAL YR 1972 TOTAL 50,123 MEAN 137 MAX 792 MIN 10 CFSM 2.59 IN 35.31
WTR YR 1973 TOTAL 53,940 MEAN 148 MAX 1,510 MIN 13 CFSM 2.80 IN 38.00

PEAK DISCHARGE (BASE, 1,250 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1745	5.33	1,500	4-2	1015	5.19	1,410
2-2	2315	8.29	3,240	6-30	1615	7.07	2,560
3-17	2000	6.69	2,330	8-2	-	-	unknown

NOTE.--No gage-height record July 23 to Aug. 8.

01171800 Bassett Brook near Northampton, Mass.

LOCATION.--Lat 42°18'09", long 72°41'16", Hampshire County, on right bank 20 ft (6 m) upstream from bridge on State Highway 66 and 3 mi (5 km) southwest of Northampton.

DRAINAGE AREA.--5.56 mi² (14.40 km²).

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 210 ft (64 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73), 7.72 ft³/s (0.219 m³/s), 18.86 in/yr (479 mm/yr).

EXTREMES.--Current year: Maximum discharge, 82 ft³/s (2.32 m³/s) June 30 (gage height, 6.14 ft or 1.871 m); minimum, 1.5 ft³/s (0.042 m³/s) Oct. 4, Sept. 14, 30.

Period of record: Maximum discharge, 98 ft³/s (2.78 m³/s) June 30, 1972 (gage height, 6.71 ft or 2.045 m), from rating curve extended above 55 ft³/s (1.56 m³/s); minimum, 0.16 ft³/s (0.005 m³/s) Sept. 2, 1963.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the current year are published in Part 2 of this report. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.2	17	41	11	8.3	27	16	13	40	3.9	2.0
2	2.3	5.6	15	28	27	9.7	65	15	13	16	32	2.1
3	2.1	8.3	13	19	70	11	38	16	11	12	17	2.1
4	1.9	6.5	12	18	45	23	34	17	11	19	8.7	2.0
5	1.9	11	13	17	24	22	47	15	11	35	6.5	1.9
6	1.8	9.0	24	14	19	20	35	14	10	18	5.3	2.5
7	20	4.8	33	11	17	19	28	13	9.6	11	4.4	2.0
8	12	15	18	10	16	34	25	12	9.5	9.2	3.7	1.9
9	4.7	24	22	9.6	17	35	22	19	9.2	7.3	3.7	1.9
10	3.6	12	21	9.2	15	30	43	19	9.5	7.1	3.7	1.9
11	2.6	8.7	18	8.8	14	27	35	29	8.7	5.3	3.4	1.8
12	2.7	8.0	15	8.4	13	31	25	20	11	5.1	3.7	1.9
13	2.5	6.9	14	8.0	13	35	23	17	25	4.4	3.9	1.9
14	2.3	16	14	7.6	12	29	21	15	18	4.2	3.7	1.9
15	2.5	21	12	7.5	12	26	20	14	9.8	5.5	4.0	2.3
16	2.4	13	14	8.0	11	26	18	23	7.9	6.2	5.8	1.8
17	2.5	9.7	12	8.4	10	45	17	16	7.9	5.6	4.8	1.7
18	2.4	9.1	12	9.0	9.0	46	17	30	7.3	5.3	4.0	3.2
19	2.1	8.6	9.9	10	9.0	29	17	22	6.8	4.7	3.9	2.5
20	2.1	31	9.8	23	10	24	16	18	5.8	4.3	3.4	2.1
21	2.1	23	9.6	14	9.6	21	16	48	5.5	8.6	3.2	1.9
22	1.9	15	17	16	11	20	15	25	5.5	8.1	2.9	1.7
23	2.0	12	18	43	11	19	13	20	5.1	6.0	2.6	2.1
24	1.9	11	14	26	10	17	14	18	4.9	5.2	2.4	2.4
25	1.8	10	13	21	9.0	16	13	16	4.8	4.7	2.4	2.6
26	1.8	43	13	18	8.6	29	18	15	4.5	4.3	2.4	2.1
27	1.7	35	13	16	8.0	23	27	16	4.8	6.5	2.4	1.9
28	2.0	20	12	15	7.8	20	34	17	8.3	7.5	2.3	1.8
29	4.8	16	10	14	------	17	23	22	10	5.5	2.2	1.7
30	3.7	13	9.5	13	------	16	18	17	51	4.4	2.1	1.5
31	2.6	------	23	12	------	17	------	14	------	3.9	2.1	------
TOTAL	103.1	428.4	470.8	483.5	449.0	745.0	764	589	319.4	289.9	156.5	61.1
MEAN	3.33	14.3	15.2	15.6	16.0	24.0	25.5	19.0	10.6	9.35	5.05	2.04
MAX	20	43	33	43	70	46	65	48	51	40	32	3.2
MIN	1.7	2.2	9.5	7.5	7.8	8.3	13	12	4.5	3.9	2.1	1.5
CFSM	.60	2.57	2.73	2.81	2.88	4.32	4.59	3.42	1.91	1.68	.91	.37
IN.	.69	2.87	3.15	3.23	3.00	4.98	5.11	3.94	2.14	1.94	1.05	.41

CAL YR 1972 TOTAL 4,457.5 MEAN 12.2 MAX 59 MIN 1.6 CFSM 2.19 IN 29.82
WTR YR 1973 TOTAL 4,859.7 MEAN 13.3 MAX 70 MIN 1.5 CFSM 2.39 IN 32.51

PEAK DISCHARGE (BASE, 70 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0730	6.01	77				
4-2	0630	5.78	70				
6-30	1330	6.14	82				

01172500 Ware River near Barre, Mass.

LOCATION.--Lat 42°25'35", long 72°01'30", Worcester County, on left bank 700 ft (200 m) downstream from Barre Falls Reservoir, 1.6 mi (2.6 km) upstream from Burnshirt River, 4 mi (6 km) east of Barre, and at mile 33.3 (kilometre 53.6).

DRAINAGE AREA.--55.0 mi² (142.4 km²).

PERIOD OF RECORD.--July 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 745 ft (227 m) from topographic map.

AVERAGE DISCHARGE.--27 years, 89.3 ft³/s (2.529 m³/s), 22.05 in/yr (560 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 682 ft³/s (19.3 m³/s) Feb. 5 (gage height, 4.87 ft or 1.484 m); minimum, 8.8 ft³/s (0.25 m³/s) Oct. 5-7; minimum daily, 8.8 ft³/s (0.25 m³/s) Oct. 6.

Period of record: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Oct. 16, 1955 (gage height, 6.31 ft or 1.923 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 0.5 ft³/s (0.014 m³/s) Sept. 11, 12, 1963; minimum daily, 0.5 ft³/s (0.014 m³/s) Sept. 11, 1963. Maximum discharge since construction of Barre Falls Reservoir in 1958, 1,050 ft³/s (29.7 m³/s) Apr. 8, 1963 (gage height, 5.41 ft or 1.649 m).

REMARKS.--Records excellent. Prior to August 1955, slight regulation at low flow at times by Long Pond. Flow regulated by Barre Falls Reservoir (see p. 215) since 1958. Diversion at times since 1955 from 6.5 mi²(16.8 km²) above station for municipal supply of Fitchburg.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	28	154	129	135	70	143	201	145	162	27	19
2	12	30	149	195	134	70	312	168	125	154	50	31
3	10	48	133	272	346	70	438	153	101	267	109	23
4	9.6	50	129	369	538	91	360	153	89	236	104	18
5	9.2	46	131	477	633	121	362	146	84	254	73	15
6	8.8	48	165	331	634	153	379	135	78	187	49	14
7	31	45	441	189	337	164	360	123	74	122	38	18
8	103	49	450	147	214	189	315	114	77	98	31	18
9	87	149	373	126	215	384	273	117	76	70	25	15
10	52	210	279	99	185	458	280	142	84	50	22	13
11	36	175	279	95	167	442	371	172	72	61	19	12
12	32	135	265	92	154	282	334	215	60	71	19	11
13	37	112	219	82	131	262	271	206	71	58	17	10
14	35	114	192	76	108	369	222	169	138	45	15	9.8
15	34	178	189	76	101	351	189	143	118	39	15	13
16	31	175	160	76	101	243	171	153	82	39	18	14
17	29	137	140	72	100	296	159	156	67	36	19	12
18	26	110	135	87	100	518	144	143	57	32	19	16
19	24	106	137	93	101	471	132	156	51	29	46	33
20	22	154	131	112	101	332	120	161	45	25	35	32
21	21	255	126	152	101	267	112	263	40	61	26	26
22	21	225	137	181	101	225	104	378	38	92	20	21
23	21	162	152	315	99	196	99	307	40	68	17	20
24	20	126	162	511	99	173	98	229	38	46	15	20
25	19	110	173	526	80	159	94	186	33	35	14	17
26	19	152	165	292	71	180	104	157	30	26	12	14
27	17	289	154	200	71	222	224	140	33	33	12	13
28	17	292	140	199	71	201	353	133	57	56	14	12
29	26	222	124	180	------	171	330	167	63	49	14	11
30	35	173	114	130	------	155	251	182	169	37	12	9.9
31	32	------	112	125	------	147	------	155	------	30	11	------
TOTAL	888.6	4,105	5,810	6,006	5,228	7,432	7,104	5,423	2,235	2,568	917	510.7
MEAN	28.7	137	187	194	187	240	237	175	74.5	82.8	29.6	17.0
MAX	103	292	450	526	634	518	438	378	169	267	109	33
MIN	8.8	28	112	72	71	70	94	114	30	25	11	9.8
MEAN†	28.7	137	194	199	182	232	237	175	74.4	82.5	29.5	17.0
CFSM†	.52	2.49	3.53	3.62	3.31	4.22	4.31	3.18	1.35	1.50	.54	.31
IN.†	.60	2.79	4.06	4.17	3.45	4.87	4.81	3.66	1.51	1.73	.62	.35

CAL YR 1972 TOTAL 51,292.9 MEAN 140 MAX 550 MIN 7.1 MEAN† 141 CFSM† 2.56 IN† 34.82
WTR YR 1973 TOTAL 48,227.3 MEAN 132 MAX 634 MIN 8.8 MEAN† 132 CFSM 2.40 IN† 32.62

† Adjusted for change in contents in Barre Falls Reservoir.

01173000 Ware River at Coldbrook, Mass.

LOCATION.--Lat 42°23'26", long 72°03'39", Worcester County, on right bank above diversion dam at Ware River intake works at Coldbrook, 2 mi (3 km) east of South Barre, 2.7 mi (4.3 km) downstream from Burnshirt River, and at mile 29.1 (kilometre 46.8).

DRAINAGE AREA.--96.8 mi² (250.7 km²).

PERIOD OF RECORD.--January 1928 to current year.

GAGE.--Venturi meters and water-stage recorder. Datum of gage is 5.65 ft (1.722 m) below mean sea level. Prior to Feb. 1, 1936, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 631.91 ft (192.606 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--45 years, 162 ft³/s (4.588 m³/s), 22.73 in/yr (577 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 1,010 ft³/s (28.6 m³/s) Feb. 3, 4; minimum daily, 12 ft³/s (0.34 m³/s) Sept. 18.
Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) Sept. 21, 1938 (gage height, 664.28 ft or 202.473 m), by computation of flow over dam; minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 19, 1965 (caused by unusual regulation). Maximum daily discharge since construction of Barre Falls Reservoir in 1958, 1,470 ft³/s (41.6 m³/s) Apr. 1, 1962.

REMARKS.--Records good. Figures of discharge include diversion as needed for Boston metropolitan district during period Oct. 15 to June 14 of each year and at other times for emergency flood-control purposes as authorized by Corps of Engineers, U. S. Army; diversion began in March 1931. Flow regulated by Barre Falls Reservoir 4.3 mi (6.9 km) upstream (see p. 215) since 1958. Diversion at times since 1955 from 6.5 mi² (16.8 km²) above station for municipal supply of Fitchburg.

COOPERATION.--Computations of daily discharge made in cooperation with Water Division, Metropolitan District Commission, which collected gage-height and venturi-meter records.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	46	247	518	218	127	357	317	237	526	69	79
2	28	57	225	488	339	129	741	263	194	377	114	71
3	26	91	202	498	1,010	133	751	254	157	404	178	53
4	24	85	195	588	1,010	251	624	256	149	347	136	86
5	23	82	200	665	977	276	671	237	141	458	91	84
6	23	83	458	364	930	298	694	218	136	268	54	37
7	79	77	605	288	510	286	613	199	138	205	50	51
8	133	99	707	246	377	615	509	191	178	138	50	43
9	131	279	634	202	347	765	443	231	164	138	45	37
10	88	266	477	162	289	715	599	286	162	119	40	32
11	61	217	459	154	251	642	669	375	136	125	39	28
12	58	156	415	152	225	474	554	392	127	123	37	27
13	68	136	360	137	188	498	437	360	164	107	37	25
14	58	214	326	135	164	606	371	281	242	83	35	25
15	59	289	278	137	181	532	324	253	176	69	35	30
16	53	234	277	138	181	436	302	306	135	83	45	31
17	50	163	225	138	173	702	277	279	126	80	46	28
18	47	140	239	159	176	935	255	263	111	73	55	12
19	43	147	242	207	181	747	237	291	103	73	74	27
20	40	376	221	343	184	533	216	316	77	69	58	34
21	38	424	210	327	181	432	196	572	80	139	47	44
22	37	304	290	383	180	369	187	621	72	162	41	39
23	36	236	304	693	173	326	180	471	64	128	36	40
24	36	168	292	819	167	297	174	358	61	95	32	39
25	35	146	293	761	138	282	161	308	57	74	30	34
26	34	393	272	442	132	387	256	261	55	88	27	30
27	31	487	255	365	130	409	458	236	77	100	29	28
28	33	426	230	344	127	361	555	254	123	124	30	27
29	49	326	191	281	------	302	496	361	128	101	28	25
30	59	265	183	226	------	271	401	314	597	81	26	23
31	53	------	256	220	------	259	------	275	------	72	28	------
TOTAL	1,562	6,412	9,972	10,600	9,139	13,397	12,718	9,599	4,367	5,029	1,642	1,169
MEAN	50.4	214	322	342	326	432	424	310	146	162	53.0	39.0
MAX	133	487	605	819	1,010	935	751	621	597	526	178	86
MIN	23	46	183	135	127	127	161	191	55	69	26	12
MEAN†	**50.5**	**214**	**328**	**347**	**322**	**425**	**424**	**309**	**145**	**162**	**52.9**	**39.0**
CFSM†	**.52**	**2.21**	**3.39**	**3.58**	**3.33**	**4.39**	**4.38**	**3.19**	**1.50**	**1.67**	**.55**	**.40**
IN†	**.60**	**2.47**	**3.90**	**4.14**	**3.46**	**5.06**	**4.89**	**3.69**	**1.68**	**1.93**	**.63**	**.45**

CAL YR 1972 TOTAL 88,473 MEAN 242 MAX 984 MIN 17 **MEAN† 242 CFSM† 2.50 IN† 34.07**
WTR YR 1973 TOTAL 85,606 MEAN 235 MAX 1,010 MIN 12 **MEAN† 235 CFSM† 2.43 IN† 32.90**

† Adjusted for change in contents in Barre Falls Reservoir.

01173260 Moose Brook near Barre, Mass.

LOCATION.--Lat 42°23'52", long 72°08'51", Worcester County, on right bank 20 ft (6 m) upstream from culvert on Hardwick Road and 2.7 mi (4.3 km) southwest of Barre.

DRAINAGE AREA.--4.54 mi² (11.76 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-62. October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (280 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73) 6.71 ft³/s (0.190 m³/s), 20.07 in/yr (510 mm/yr).

EXTREMES.--Current year: Maximum discharge, 163 ft³/s (4.62 m³/s) June 30 (gage height, 2.89 ft or 0.881 m), from rating curve extended above 79 ft³/s (2.24 m³/s); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 14.
Period of record: Maximum discharge, 163 ft³/s (4.62 m³/s) June 30, 1973 (gage height, 2.89 ft or 0.881 m), from rating curve extended above 79 ft³/s (2.24 m³/s); maximum gage height, 3.65 ft (1.113 m) Mar. 7, 1963 (backwater from ice); no flow at times during water years 1963-65, 1968, 1970.

REMARKS.--Records good. Records of chemical analyses and water temperature for the current year are published in Part 2 of this report. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	1.4	8.5	58	6.2	3.3	9.5	11	9.7	84	2.4	.67
2	.73	1.9	7.9	58	11	4.1	43	8.9	7.8	39	5.6	.44
3	.51	4.3	7.7	36	93	5.0	38	8.2	6.4	25	24	.31
4	.50	3.6	8.3	23	64	14	26	9.8	5.1	14	16	.26
5	.43	3.3	8.5	18	36	21	30	9.1	4.5	13	8.3	.22
6	.37	4.0	29	13	26	18	28	7.8	4.1	11	5.2	.22
7	2.0	3.4	91	9.0	19	14	22	6.9	4.0	7.8	3.4	.44
8	2.7	3.9	44	6.6	14	46	16	6.2	6.4	6.0	2.9	.44
9	1.7	11	35	6.1	12	62	13	6.9	6.7	4.5	2.1	.26
10	1.2	9.0	31	5.7	9.1	32	19	12	5.6	3.6	1.8	.22
11	.95	6.3	25	5.4	7.6	23	27	18	4.5	2.9	1.7	.22
12	.96	5.5	17	5.2	6.4	20	20	20	3.6	3.2	1.7	.22
13	1.4	4.8	14	5.0	5.7	22	15	18	5.5	2.2	1.5	.22
14	1.4	6.9	13	4.8	5.3	18	12	13	7.4	1.5	1.3	.19
15	1.3	15	10	4.6	5.2	14	10	10	6.0	1.6	1.1	.44
16	1.1	10	9.0	4.4	5.2	15	8.4	14	4.4	1.8	1.4	.37
17	1.1	6.9	7.9	4.6	5.2	24	7.6	14	3.8	1.6	1.5	.31
18	.88	5.7	7.4	6.0	5.2	36	7.1	11	3.2	1.4	1.3	1.3
19	.86	5.0	7.2	8.3	5.0	27	6.8	9.4	2.7	1.3	1.1	3.0
20	.86	22	6.9	25	5.2	19	7.2	7.8	2.4	1.1	1.1	1.8
21	.86	27	6.5	25	5.2	15	9.6	29	1.6	6.4	.95	1.4
22	.86	16	10	16	5.1	11	8.9	28	1.1	10	.67	.95
23	.86	9.4	15	39	5.2	9.8	8.0	18	1.8	4.9	.59	1.0
24	.86	7.1	14	34	4.7	8.7	7.8	13	2.0	2.5	.51	1.0
25	.78	6.2	12	22	4.4	7.7	7.2	10	2.0	1.6	.37	1.0
26	.69	20	11	15	3.9	12	7.7	8.3	1.7	1.4	.31	.93
27	.67	31	10	12	3.6	16	20	7.6	2.1	4.1	.37	.77
28	.63	22	9.0	10	3.4	13	25	7.1	4.9	11	.44	.50
29	1.5	15	7.8	8.0	------	11	20	19	6.2	5.8	.26	.45
30	1.9	9.9	7.0	7.2	------	9.2	14	17	82	4.1	.26	.39
31	1.6	------	8.9	6.6	------	8.3	------	11	------	2.9	.31	------
TOTAL	33.15	297.5	499.5	501.5	381.8	559.1	493.8	390.0	209.2	281.2	90.44	19.94
MEAN	1.07	9.92	16.1	16.2	13.6	18.0	16.5	12.6	6.97	9.07	2.92	.66
MAX	2.7	31	91	58	93	62	43	29	82	84	24	3.0
MIN	.37	1.4	6.5	4.4	3.4	3.3	6.8	6.2	1.1	1.1	.26	.19
CFSM	.24	2.19	3.55	3.57	3.00	3.96	3.63	2.78	1.54	2.00	.64	.15
IN.	.27	2.44	4.09	4.11	3.13	4.58	4.05	3.20	1.71	2.30	.74	.16

CAL YR 1972 TOTAL 3,697.57 MEAN 10.1 MAX 91 MIN .26 CFSM 2.22 IN 30.30
WTR YR 1973 TOTAL 3,757.13 MEAN 10.3 MAX 93 MIN .19 CFSM 2.27 IN 30.79

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0200	2.80	144	3-9	0045	2.43	86
1-1	1600	2.34	75	6-30	1330	2.89	163
2-3	1515	2.77	139				

01173500 Ware River at Gibbs Crossing, Mass.

LOCATION.--Lat 42°14'07", long 72°16'45", Hampshire County, on right bank 0.5 mi (0.8 km) upstream from Gibbs Crossing, 1.8 mi (2.9 km) upstream from Beaver Brook, 2.5 mi (4.0 km) southwest of Ware, and 8.8 mi (14.2 km) upstream from mouth.

DRAINAGE AREA.--199 mi^2 (515 km^2).

PERIOD OF RECORD.--August 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 379.79 ft (115.760 m) above mean sea level. Prior to Mar. 1, 1930, at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--61 years, 316 ft^3/s (8.949 m^3/s), 21.56 in/yr (548 mm/yr), adjusted for storage and for diversion to Boston metropolitan district.

EXTREMES.--Current year: Maximum discharge, 2,630 ft^3/s (74.5 m^3/s) Feb. 3 (gage height, 5.57 ft or 1.698 m); minimum, 54 ft^3/s (1.53 m^3/s) Sept. 14, 30; minimum daily, 55 ft^3/s (1.56 m^3/s) Sept. 13, 14, 30.

Period of record: Maximum discharge, 22,700 ft^3/s (643 m^3/s) Sept. 21, 1938 (gage height, 18.2 ft or 5.55 m, from floodmarks), from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of contracted-opening measurement at gage height 12.83 ft (3.911 m) and slope-area measurement at gage height 18.2 ft (5.55 m); minimum, 5.0 ft^3/s (0.14 m^3/s) Oct. 26, 1914; minimum daily, 6.0 ft^3/s (0.17 m^3/s) Oct. 4, 1914. Maximum discharge since construction of Barre Falls Reservoir in 1958, 4,000 ft^3/s (113 m^3/s) Mar. 31, 1960 (gage height, 7.03 ft or 2.143 m).

REMARKS.--Records good except those for winter period and periods of backwater from grass, which are fair. Diversion at times: since March 1931 from 97 mi^2 (251 km^2) for supply of Boston metropolitan district (see table below for figures of diversion) and since 1955 from 6.5 mi^2 (16.8 km^2) for municipal supply of Fitchburg. Regulation by Barre Falls Reservoir (see p. 215) since 1958. Flow regulated by mills above station prior to 1967.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 1301: 1944. WSP 1301: 1914(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	116	334	1,430	280	205	399	367	315	1,730	99	71
2	75	118	315	1,290	452	223	1,190	343	280	896	120	95
3	74	161	304	691	2,190	271	932	343	255	671	290	97
4	70	178	335	560	1,240	535	679	379	239	591	295	83
5	66	168	390	526	722	647	860	349	235	591	215	99
6	68	168	612	450	543	503	759	320	231	373	160	101
7	132	161	1,690	405	455	413	583	300	227	267	128	72
8	198	165	761	345	413	878	487	285	235	235	120	74
9	188	326	732	315	427	1,070	427	305	227	219	125	69
10	168	312	699	290	335	655	583	373	219	203	101	63
11	123	259	597	285	325	503	735	527	211	223	93	60
12	106	247	476	265	290	463	543	535	203	227	93	58
13	121	235	451	260	280	495	448	448	271	185	89	55
14	118	303	444	255	270	441	392	367	310	160	81	55
15	116	450	399	272	285	406	367	343	251	145	78	64
16	108	341	373	277	275	427	343	427	219	142	81	66
17	101	285	350	281	240	615	331	399	211	136	87	63
18	94	263	345	299	235	932	325	343	192	123	85	74
19	94	251	337	339	245	607	320	310	174	113	95	85
20	89	492	331	637	255	471	305	290	160	105	103	66
21	87	549	319	500	259	406	310	719	136	181	91	66
22	85	391	424	410	267	367	310	655	139	305	81	71
23	87	311	521	798	267	337	310	455	136	235	76	76
24	92	279	442	670	251	325	320	355	128	174	72	76
25	89	268	403	477	235	315	310	310	133	130	69	80
26	89	448	396	404	231	420	337	290	125	110	66	72
27	89	614	401	372	219	495	607	275	128	136	64	66
28	92	428	379	362	210	413	655	285	223	192	66	63
29	108	368	342	300	------	385	543	463	243	174	67	60
30	132	325	322	295	------	361	427	399	932	136	64	55
31	123	------	397	275	------	355	------	337	------	113	63	------
TOTAL	3,256	8,980	14,621	14,335	11,696	14,939	15,137	11,896	6,988	9,221	3,317	2,155
MEAN	105	299	472	462	418	482	505	384	233	297	107	71.8
MAX	198	614	1,690	1,430	2,190	1,070	1,190	719	932	1,730	295	101
MIN	66	116	304	255	210	205	305	275	125	105	63	55
(†)	0	+96.1	+189	+208	+192	+298	+289	+175	+16.4	+15.7	0	0
MEAN‡	105	396	667	676	605	773	794	559	249	313	107	71.8
CFSM‡	.53	1.99	3.35	3.40	3.04	3.88	3.99	2.81	1.25	1.57	.54	.36
IN.‡	.61	2.22	3.86	3.91	3.17	4.48	4.45	3.24	1.40	1.81	.62	.40

CAL YR 1972 TOTAL 128,053 MEAN 350 MAX 1,730 MIN 50 MEAN‡ 480 CFSM‡ 2.41 IN‡ 32.84
WTR YR 1973 TOTAL 116,541 MEAN 319 MAX 2,190 MIN 55 MEAN‡ 442 CFSM‡ 2.22 IN‡ 30.17

† Diversion, in cubic feet per second, from 97 mi^2 for supply of Boston metropolitan district; records furnished by Metropolitan District Commission.

‡ Adjusted for diversion to Boston metropolitan district and for change in contents in Barre Falls Reservoir.

NOTE.--Backwater from grass Oct. 1 to Nov. 18, June 20 to Sept. 30.

01174000 Hop Brook near New Salem, Mass.

LOCATION.--Lat 42°28'42", long 72°20'05", Franklin County, on right bank 1.5 mi (2.4 km) upstream from mouth and 1.5 mi (2.4 km) south of New Salem.

DRAINAGE AREA.--3.39 mi² (8.78 km²).

PERIOD OF RECORD.--October 1947 to current year. Monthly discharge only October 1947, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 725 ft (221 m) from topographic map.

AVERAGE DISCHARGE.--26 years, 5.88 ft³/s (0.167 m³/s), 23.55 in/yr (598 mm/yr).

EXTREMES.--Current year: Maximum discharge, 246 ft³/s (6.97 m³/s) Jan. 23 (gage height, 2.85 ft or 0.869 m), from rating curve extended above 36 ft³/s (1.02 m³/s); maximum gage height, 3.21 ft (0.978 m) Feb. 2 (ice jam); minimum discharge, 0.06 ft³/s (0.002 m³/s) Sept. 13, 14.

Period of record: Maximum discharge, 289 ft³/s (8.18 m³/s) Oct. 24, 1959 (gage height, 3.17 ft or 0.966 m), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, 0.004 ft³/s (<0.001 m³/s) Aug. 3, 9, 10, 1955.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	1.1	11	52	9.3	5.0	21	8.9	7.6	18	.93	.39
2	.52	3.2	9.0	23	39	5.3	88	8.2	6.3	11	22	.39
3	.39	8.4	9.0	15	91	5.5	28	9.9	5.3	7.5	9.7	.26
4	.33	2.6	9.0	14	29	14	23	11	5.0	7.0	3.8	.17
5	.31	3.2	8.1	14	20	13	32	8.9	4.7	16	2.1	.23
6	.31	3.9	36	12	16	11	23	7.6	4.4	10	1.6	.63
7	8.7	2.5	34	10	14	11	17	8.1	11	6.0	1.4	.63
8	3.1	7.2	16	8.8	13	33	14	6.1	10	4.0	1.2	.31
9	1.3	12	25	8.6	12	24	13	16	7.6	3.2	1.1	.23
10	1.0	4.2	22	8.4	11	19	57	12	6.6	2.5	.97	.17
11	.88	2.9	17	7.8	10	16	26	24	4.4	2.1	.98	.14
12	1.0	3.4	13	7.5	9.2	26	18	14	5.4	1.8	1.0	.10
13	2.2	2.9	14	6.7	8.8	28	18	12	9.6	1.6	.80	.08
14	.88	8.1	12	6.4	8.6	21	14	9.3	6.9	1.4	.73	.11
15	.93	8.7	11	6.9	9.2	21	12	8.8	4.2	1.3	2.0	.48
16	.79	5.0	12	6.4	8.7	21	11	18	3.3	1.6	2.2	.39
17	.79	3.5	11	6.9	7.5	53	10	10	3.0	1.4	1.4	.31
18	.67	3.1	11	10	7.5	35	10	11	2.8	1.2	1.1	3.5
19	.67	2.9	9.3	14	6.9	21	9.0	9.5	2.7	1.0	.95	1.4
20	.67	27	8.1	49	6.7	17	8.1	9.6	2.5	.90	.84	.71
21	.67	12	7.2	20	6.7	14	7.8	57	2.4	3.5	.76	.48
22	.67	6.7	13	16	7.2	13	7.2	19	2.4	2.7	.64	.45
23	.71	5.3	11	82	6.4	12	7.2	14	2.6	2.1	.51	.63
24	.71	4.6	9.3	25	5.9	11	6.9	11	2.4	1.6	.41	.52
25	.71	4.4	9.3	18	5.0	11	6.2	10	2.3	1.2	.38	.55
26	.71	45	9.3	14	5.3	25	14	9.6	2.0	1.3	.33	.39
27	.63	21	8.7	14	5.0	14	19	8.7	6.3	2.4	.28	.33
28	.67	13	7.8	13	5.3	11	25	10	11	2.0	.31	.28
29	2.4	12	7.2	10	------	10	13	16	34	1.5	.28	.23
30	2.0	10	6.7	11	------	10	10	9.6	48	1.2	.19	.21
31	1.3	------	17	9.0	------	9.6	------	9.5	------	1.0	.15	------
TOTAL	37.50	249.8	404.0	519.4	384.2	540.4	568.4	397.3	226.7	120.00	61.04	14.70
MEAN	1.21	8.33	13.0	16.8	13.7	17.4	18.9	12.8	7.56	3.87	1.97	.49
MAX	8.7	45	36	82	91	53	88	57	48	18	22	3.5
MIN	.31	1.1	6.7	6.4	5.0	5.0	6.2	6.1	2.0	.90	.15	.08
CFSM	.36	2.46	3.83	4.96	4.04	5.13	5.58	3.78	2.23	1.14	.58	.14
IN.	.41	2.74	4.43	5.70	4.22	5.93	6.24	4.36	2.49	1.32	.67	.16

CAL YR 1972 TOTAL 2,991.58 MEAN 8.17 MAX 69 MIN .11 CFSM 2.41 IN 32.83
WTR YR 1973 TOTAL 3,523.44 MEAN 9.65 MAX 91 MIN .08 CFSM 2.85 IN 38.66

PEAK DISCHARGE (BASE, 100 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1245	2.24	107	3-17	1815	2.25	109
12-6	2100	2.31	120	4-2	0130	2.44	145
1-23	0215	2.85	246	4-10	1145	2.31	120
2-3	0015	2.71	209	5-21	0530	2.37	131

01174500 East Branch Swift River near Hardwick, Mass.

LOCATION.--Lat 42°23'36", long 72°14'21", Worcester County, on left bank 100 ft (30 m) above spillway of regulating dam and 4.6 mi (7.4 km) northwest of Hardwick.

DRAINAGE AREA.--43.7 mi² (113.2 km²).

PERIOD OF RECORD.--January 1937 to current year. Published as "near Dana" January 1937 to September 1939.

GAGE.--Water-stage recorder. Concrete spillway since Mar. 12, 1940. Datum of gage is 504.70 ft (153.833 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 67.2 ft³/s (1.903 m³/s), 20.88 in/yr (530 mm/yr).

EXTREMES.--Current year: Maximum discharge, 813 ft³/s (23.0 m³/s) Feb. 3 (gage height, 20.89 ft or 6.367 m); minimum, 3.7 ft³/s (0.10 m³/s) Sept. 1-5, 6.

Period of record: Maximum discharge, 6,780 ft³/s (192 m³/s) Sept. 21, 1938, average of slope-area and contracted-opening measurements; maximum gage height, 22.49 ft (6.855 m) June 25, 1944; no flow at times during several years.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	16	97	340	77	45	112	107	94	586	22	4.0
2	7.9	17	81	454	102	46	347	92	81	278	29	3.7
3	7.8	27	68	269	637	53	378	86	66	158	73	3.7
4	7.7	32	74	193	567	89	273	103	59	109	72	3.7
5	7.3	34	85	159	327	156	302	109	57	104	50	3.8
6	7.0	34	103	130	221	156	285	93	55	100	35	5.5
7	14	32	441	95	174	134	238	80	51	81	27	7.9
8	24	38	303	75	151	258	194	73	145	64	21	7.2
9	22	67	240	62	139	482	158	80	141	54	18	6.8
10	19	73	225	59	110	319	186	104	119	45	17	5.9
11	15	60	196	58	97	226	281	150	91	38	15	6.1
12	14	51	156	56	82	198	223	179	74	32	14	12
13	17	43	129	53	77	231	174	161	94	26	13	12
14	15	55	120	50	73	213	142	127	130	25	12	9.7
15	14	98	107	49	81	184	123	107	110	26	12	10
16	12	86	106	50	79	179	110	131	86	27	14	8.3
17	12	65	85	53	72	226	101	137	69	25	13	6.8
18	11	51	69	56	61	354	98	117	58	23	12	8.7
19	11	42	70	69	59	278	94	100	56	21	12	11
20	9.9	82	74	166	60	201	92	89	51	19	11	9.2
21	9.2	146	70	205	64	161	81	243	45	32	10	8.1
22	9.1	117	96	152	66	137	75	305	44	43	9.2	6.9
23	9.3	81	131	279	65	119	74	209	44	35	8.6	7.6
24	11	61	118	344	60	107	76	153	40	26	7.7	8.0
25	13	50	102	223	56	98	71	123	37	21	7.3	8.4
26	16	88	95	159	54	131	75	104	35	18	7.0	8.0
27	16	198	95	128	49	171	136	92	34	27	6.3	7.5
28	15	163	89	114	45	146	174	91	49	40	6.4	7.6
29	19	120	79	122	------	124	171	133	57	34	6.1	7.0
30	20	94	72	97	------	110	136	129	352	32	5.2	6.6
31	18	------	95	88	------	104	------	109	------	28	4.8	------
TOTAL	411.1	2,121	3,871	4,407	3,705	5,436	4,980	3,916	2,424	2,177	570.6	221.7
MEAN	13.3	70.7	125	142	132	175	166	126	80.8	70.2	18.4	7.39
MAX	24	198	441	454	637	482	378	305	352	586	73	12
MIN	7.0	16	68	49	45	45	71	73	34	18	4.8	3.7
CFSM	.30	1.62	2.86	3.25	3.02	4.00	3.80	2.88	1.85	1.61	.42	.17
IN.	.35	1.81	3.30	3.75	3.15	4.63	4.24	3.33	2.06	1.85	.49	.19

CAL YR 1972 TOTAL 32,984.9 MEAN 90.1 MAX 534 MIN 3.7 CFSM 2.06 IN 28.08
WTR YR 1973 TOTAL 34,240.4 MEAN 93.8 MAX 637 MIN 3.7 CFSM 2.15 IN 29.15

PEAK DISCHARGE (BASE, 350 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1100	20.43	491	3-9	0300	20.51	547
1-1	2300	20.48	526	3-18	1100	20.25	373
1-24	0100	20.28	392	4-2	2000	20.36	444
2-3	1700	20.89	813	6-30	2300	20.80	750

01174600 Cadwell Creek near Pelham, Mass.

LOCATION.--Lat 42°21'16", long 72°23'18", Hampshire County, on left bank 0.8 mi (1.3 km) east of Knights Corner, 2 mi (3 km) upstream from mouth, 2.7 mi (4.3 km) south of Pelham, and 5 mi (8 km) north of Belchertown.

DRAINAGE AREA.--0.63 mi² (1.63 km²).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 860 ft (262 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 1.07 ft³/s (0.030 m³/s), 23.06 in/yr (586 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 34 ft³/s (0.96 m³/s) Feb. 2 (gage height, 5.09 ft or 1.551 m, affected by backwater from ice), from rating curve extended above 10 ft³/s (0.28 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) Aug. 31, Sept. 3-6, 11-14.

Period of record: Maximum discharge, 36 ft³/s (1.02 m³/s) Feb. 3, 1970 (gage height, 5.06 ft or 1.542 m), from rating curve extended above 10 ft³/s (0.28 m³/s); maximum gage height, 5.09 ft or 1.551 m (affected by backwater from ice) Feb. 2, 1973; no flow at times.

REMARKS.--Records good except those for periods of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.16	1.5	17	1.3	.71	3.9	1.8	1.3	3.5	.20	.03
2	.05	.47	1.3	6.3	7.6	1.0	17	1.4	1.1	1.5	2.0	.02
3	.04	.86	1.2	3.1	20	1.1	5.1	2.3	.92	1.0	5.0	.02
4	.05	.37	1.6	2.6	7.6	4.6	4.2	2.1	.82	.90	7.0	.01
5	.04	.52	1.5	2.2	4.1	4.6	6.2	1.6	.80	2.5	2.0	.01
6	.04	.50	3.4	1.5	3.0	3.5	4.2	1.3	.72	1.3	1.0	.19
7	2.0	.33	15	1.1	2.4	3.0	2.8	1.1	.65	.80	.70	.12
8	.52	1.5	3.8	.95	2.2	13	2.1	1.0	.58	.56	.55	.05
9	.21	2.1	5.5	.85	1.9	7.5	1.8	3.0	.50	.45	.45	.03
10	.14	.80	4.8	.78	1.4	4.4	8.4	2.5	.42	.36	.45	.02
11	.11	.55	3.8	.72	1.4	3.3	5.3	6.2	.35	.31	.60	.02
12	.21	.62	2.2	.68	1.2	4.0	2.8	3.2	.30	.27	.45	.01
13	.26	.50	2.1	.66	1.1	3.4	2.0	2.4	.60	.23	.32	.01
14	.15	1.8	1.9	.66	1.0	2.6	1.7	1.7	.70	.25	.25	.02
15	.13	2.3	1.6	.70	1.0	2.7	1.5	1.6	.55	.35	.31	.17
16	.12	1.1	1.4	.75	1.0	2.7	1.3	3.2	.42	.40	.46	.07
17	.12	.77	1.2	.90	.96	8.7	1.2	1.9	.35	.27	.25	.04
18	.10	.65	1.1	1.2	.90	7.0	1.2	1.8	.30	.20	.17	.68
19	.10	.57	1.0	2.0	.86	3.3	1.1	1.4	.30	.17	.14	.25
20	.10	6.0	1.0	7.0	.86	2.4	1.0	1.9	.25	.15	.12	.12
21	.09	2.7	1.0	3.0	.90	2.0	.93	14	.25	2.0	.10	.07
22	.08	1.4	2.9	3.1	.96	1.7	.90	4.5	.27	.80	.08	.07
23	.08	.93	2.4	15	.93	1.5	.83	2.7	.35	.45	.07	.15
24	.08	.80	1.8	5.6	.86	1.2	1.1	2.0	.25	.30	.05	.16
25	.08	.77	1.6	3.1	.90	1.2	.93	1.6	.18	.20	.05	.34
26	.08	7.5	1.7	2.2	.80	4.2	1.1	1.4	.14	.18	.04	.13
27	.08	3.3	1.6	2.0	.77	2.8	4.1	1.3	.73	.80	.04	.09
28	.08	1.8	1.3	1.8	.68	1.8	7.5	1.3	1.9	.65	.04	.07
29	.50	1.4	1.1	1.5	------	1.5	4.7	2.8	3.4	.45	.04	.06
30	.33	1.1	1.0	1.8	------	1.4	2.5	2.1	10	.40	.03	.05
31	.19	------	4.4	1.5	------	1.3	------	1.6	------	.30	.02	------
TOTAL	6.27	44.17	77.7	92.25	68.58	104.11	99.39	78.7	29.40	22.00	22.98	3.08
MEAN	.20	1.47	2.51	2.98	2.45	3.36	3.31	2.54	.98	.71	.74	.10
MAX	2.0	7.5	15	17	20	13	17	14	10	3.5	7.0	.68
MIN	.04	.16	1.0	.66	.68	.71	.83	1.0	.14	.15	.02	.01
CFSM	.32	2.33	3.98	4.73	3.89	5.33	5.25	4.03	1.56	1.13	1.17	.16
IN.	.37	2.61	4.59	5.45	4.05	6.15	5.87	4.65	1.74	1.30	1.36	.18

CAL YR 1972 TOTAL 607.29 MEAN 1.66 MAX 18 MIN .01 CFSM 2.63 IN 35.86
WTR YR 1973 TOTAL 648.63 MEAN 1.78 MAX 20 MIN .01 CFSM 2.83 IN 38.30

PEAK DISCHARGE (BASE, 18 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0130	4.88	29	3-17	1830	4.55	19
1-1	0745	4.64	21	4-2	0115	4.83	27
1-23	0100	4.67	22	5-21	0500	4.85	28
2-2	2330	5.09	†34	6-30	1500	4.58	19
3-8	1200	4.65	22				

† About

NOTE.--No gage-height record May 22 to June 24, July 1 to Aug. 14.

01174900 Cadwell Creek near Belchertown, Mass.

LOCATION.--Lat 42°20'08", long 72°22'12", Hampshire County, on left bank 200 ft (60 m) upstream from mouth, 2 mi (3 km) southeast of Knights Corner, and 4.5 mi (7.2 km) north of Belchertown.

DRAINAGE AREA.--2.81 mi² (7.28 km²).

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 540 ft (165 m) from topographic map.

AVERAGE DISCHARGE.--12 years, 4.40 ft³/s (0.125 m³/s), 21.26 in/yr (540 mm/yr).

EXTREMES.--Current year: Maximum discharge, 132 ft³/s (3.74 m³/s) Dec. 6 (gage height, 6.78 ft or 2.067 m); minimum, 0.27 ft³/s (0.008 m³/s) Sept. 13, 14.
Period of record: Maximum discharge, 190 ft³/s (5.38 m³/s) Feb. 3, 1970 (gage height, 7.05 ft or 2.149 m); minimum, 0.07 ft³/s (0.002 m³/s) several times in water years 1964, 1965, and 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1967: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	1.0	5.7	65	5.6	2.8	14	7.0	5.6	15	.98	.50
2	.56	2.0	4.7	26	25	3.6	67	6.1	4.7	5.7	9.6	.44
3	.44	4.1	4.8	13	72	4.3	25	6.2	3.9	4.0	24	.42
4	.40	2.3	5.3	10	28	18	18	8.7	3.5	3.8	31	.36
5	.37	2.6	5.7	8.9	16	16	28	6.3	3.4	11	7.9	.38
6	.35	2.5	41	6.2	11	12	20	5.5	3.1	5.5	4.4	.66
7	7.4	1.8	39	4.7	8.7	10	12	4.8	2.9	3.4	3.3	.64
8	2.9	5.2	15	4.3	7.9	46	9.3	4.4	2.6	2.5	2.5	.53
9	1.3	7.4	24	4.0	7.2	30	7.7	8.2	2.3	2.0	2.1	.44
10	.96	3.4	19	3.7	5.9	19	22	10	1.9	1.6	2.1	.39
11	.83	2.6	14	3.4	5.1	14	21	17	1.6	1.4	2.6	.36
12	.99	2.7	8.5	3.1	4.8	19	12	14	1.4	1.2	2.1	.34
13	1.5	2.3	8.4	2.9	4.7	15	8.7	10	2.3	1.0	1.7	.30
14	1.0	8.0	7.0	2.9	4.4	11	7.3	7.2	3.2	1.1	1.4	.32
15	.94	8.0	6.0	3.2	4.5	11	6.5	6.3	2.5	1.5	1.4	.87
16	.84	4.2	5.9	3.2	4.2	11	5.9	12	1.9	1.7	3.5	.67
17	.81	3.1	4.7	3.4	3.9	32	5.5	7.4	1.6	1.2	2.0	.51
18	.73	2.8	4.8	4.4	4.1	31	5.3	6.7	1.4	.93	1.4	2.5
19	.69	2.5	4.4	6.2	3.8	16	5.0	5.7	1.4	.79	1.3	1.8
20	.68	23	4.3	26	3.7	10	4.6	6.0	1.2	.73	1.1	.93
21	.65	9.2	4.0	10	3.8	8.4	4.3	42	1.2	8.5	1.0	.76
22	.66	5.3	13	9.3	4.1	7.2	4.2	23	1.3	3.5	.90	.72
23	.66	3.9	9.3	51	3.9	6.4	4.1	12	1.6	2.0	.81	1.0
24	.68	3.5	6.5	24	3.6	5.7	4.8	8.2	1.3	1.3	.71	.91
25	.64	3.3	6.0	12	3.3	5.4	4.1	6.5	1.1	.95	.66	1.7
26	.64	21	6.1	8.7	3.1	17	5.7	5.8	.97	.90	.60	.96
27	.59	11	6.1	7.6	2.9	11	14	5.3	2.0	3.6	.58	.80
28	.63	6.5	5.3	7.0	2.8	7.3	25	5.4	6.2	2.8	.60	.68
29	2.2	5.4	4.5	5.4	------	6.2	18	12	12	1.9	.54	.58
30	1.8	4.5	4.2	5.8	------	5.7	9.6	9.1	34	1.8	.47	.50
31	1.2	------	17	5.2	------	5.7	------	6.3	------	1.4	.42	------
TOTAL	34.96	165.1	314.2	350.5	258.0	417.7	398.6	295.1	118.07	94.70	113.67	21.97
MEAN	1.13	5.50	10.1	11.3	9.21	13.5	13.3	9.52	3.80	3.05	3.67	.73
MAX	7.4	23	41	65	72	46	67	42	34	15	31	2.5
MIN	.35	1.0	4.0	2.9	2.8	2.8	4.1	4.4	.97	.73	.42	.30
CFSM	.40	1.96	3.59	4.02	3.28	4.80	4.73	3.39	1.35	1.09	1.31	.26
IN.	.46	2.19	4.16	4.64	3.42	5.53	5.28	3.91	1.51	1.25	1.50	.29

CAL YR 1972 TOTAL 2,475.19 MEAN 6.76 MAX 76 MIN .21 CFSM 2.41 IN 32.77
WTR YR 1973 TOTAL 2,578.57 MEAN 7.06 MAX 72 MIN .30 CFSM 2.51 IN 34.14

PEAK DISCHARGE (BASE, 75 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1930	6.78	132	3-8	1200	6.50	87
1-1	0430	6.47	83	4-2	0415	6.52	90
1-23	0100	6.45	80	8-3	2200	6.59	101
2-3	0145	6.64	108				

01175500 Swift River at West Ware, Mass.

LOCATION.--Lat 42°16'04", long 72°19'59", Hampshire County, on left bank at West Ware, 1.4 mi (2.3 km) downstream from Quabbin Reservoir, 3.5 mi (5.6 km) east of Belchertown, and 8.0 mi (12.9 km) upstream from mouth.

DRAINAGE AREA.--188 mi² (487 km²), includes 1.6 mi² (4.1 km²) drained by Beaver Brook, flow of which is diverted from Ware River basin. Prior to January 1937, 186 mi² (482 km²).

PERIOD OF RECORD.--July 1910 to September 1912 (twice-daily gage heights and corresponding discharges), October 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 365.18 ft (111.307 m) above mean sea level. Prior to Aug. 25, 1912, nonrecording gage at site 400 ft (100 m) upstream at same datum.

AVERAGE DISCHARGE.--61 years (1912-73), 300 ft³/s (8.496 m³/s), 21.67 in/yr (550 mm/yr), adjusted for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 151 ft³/s (4.28 m³/s) June 29 (gage height, 2.84 ft or 0.866 m); maximum gage height, 2.94 ft (0.896 m) Jan. 9 (backwater from ice); minimum daily discharge, 22 ft³/s (0.62 m³/s) Aug. 12.
Period of record: Maximum discharge, 7,590 ft³/s (215 m³/s) Mar. 19, 1936 (gage height, 15.00 ft or 4.572 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Dec. 15, 1968. Maximum discharge since construction of Quabbin Reservoir in 1939, 1,870 ft³/s (53.0 m³/s) Apr. 30, 1956 (gage height, 8.37 ft or 2.551 m).

REMARKS.--Records good. Flow regulated since August 1939 by Quabbin Reservoir (see p. 215). Diversion from Ware River to Quabbin Reservoir since 1940, from Quabbin Reservoir to Wachusett Reservoir since 1941, from Quabbin Reservoir to Chicopee Valley aqueduct since 1950, and at times during 1966 and 1967 from Quabbin Reservoir to city of Worcester.

REVISIONS (WATER YEARS).--WSP 401: Drainage area. WSP 451: 1916. WSP 871: 1919. WSP 1031: 1944 (changes in reservoir contents and adjusted figures only). WSP 1301: 1925(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	39	41	43	41	39	31	41	43	27	39	91
2	95	40	46	54	41	40	58	41	48	48	41	94
3	95	41	28	44	48	46	44	42	27	46	40	94
4	95	45	49	44	32	33	45	42	49	27	45	94
5	95	28	42	44	51	50	47	47	41	52	26	94
6	95	47	50	49	43	42	44	27	41	41	47	96
7	98	39	46	29	42	41	49	40	41	46	39	95
8	75	40	44	49	43	51	30	47	41	27	40	91
9	50	40	52	43	43	44	50	42	46	48	40	94
10	40	40	32	42	48	48	45	41	26	41	40	95
11	40	46	51	42	28	29	44	44	47	41	44	95
12	40	28	43	42	48	50	44	48	41	40	22	95
13	40	48	43	47	41	41	45	27	43	40	23	96
14	46	44	42	27	41	42	50	49	41	46	52	95
15	28	42	42	48	41	42	34	41	41	27	40	92
16	48	41	48	40	40	42	33	41	46	47	41	95
17	40	40	28	40	48	52	50	41	26	40	40	95
18	38	46	49	40	31	30	42	41	47	40	46	98
19	39	27	42	41	31	49	42	47	40	40	27	95
20	39	54	41	48	48	42	41	28	41	40	48	57
21	47	41	40	28	40	42	47	56	40	47	40	40
22	31	46	44	48	41	41	28	43	41	26	77	45
23	31	27	50	45	40	41	49	43	45	46	94	26
24	49	48	33	43	45	47	41	42	26	39	94	48
25	39	46	33	41	27	28	41	42	47	39	91	41
26	39	31	51	41	47	51	43	47	40	40	94	40
27	39	49	42	46	40	42	43	27	41	40	93	40
28	45	41	42	28	40	42	50	52	41	45	94	40
29	28	41	41	46	------	48	29	43	47	26	94	45
30	49	40	48	43	------	42	48	42	57	47	94	27
31	39	------	36	41	------	47	------	43	------	40	94	------
TOTAL	1,667	1,225	1,319	1,306	1,149	1,320	1,287	1,297	1,241	1,239	1,739	2,243
MEAN	53.8	40.8	42.5	42.1	41.0	42.6	42.9	41.8	41.4	40.0	56.1	74.8
MAX	98	54	52	54	51	52	58	56	57	52	94	98
MIN	28	27	28	27	27	28	28	27	26	26	22	26
MEAN†	75.5	430	635	593	548	796	838	634	401	188	59.9	-19.9
CFSM†	.40	2.29	3.38	3.15	2.91	4.23	4.46	3.37	2.13	1.00	.32	-.11
IN.†	.46	2.55	3.90	3.64	3.04	4.89	4.98	3.89	2.38	1.16	.37	-.12

CAL YR 1972 TOTAL 16,306 MEAN 44.6 MAX 98 MIN 20 MEAN† 417 CFSM† 2.22 IN† 30.17
WTR YR 1973 TOTAL 17,032 MEAN 46.7 MAX 98 MIN 22 MEAN† 431 CFSM† 2.29 IN† 31.12

† Adjusted for diversions and change in contents in Quabbin Reservoir (Negat[illegible] figures [illegible]cate that evaporation and seepage from reservoir exceeded inflow.).

01175670 Sevenmile River near Spencer, Mass.

LOCATION.--Lat 42°15'54", long 72°00'19", Worcester County, on right bank 40 ft (12 m) upstream from bridge on Cooney Road and 1.5 mi (2.4 km) north of Spencer.

DRAINAGE AREA.--8.58 mi² (22.22 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1960. October 1960 to current year. October and November 1960 monthly discharge only, published in WSP 1901.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (195 m) from topographic map.

AVERAGE DISCHARGE.--13 years, 13.3 ft³/s (0.377 m³/s), 21.05 in/yr (535 mm/yr).

EXTREMES.--Current year: Maximum discharge, 209 ft³/s (5.92 m³/s) Feb. 3 (gage height, 4.40 ft or 1.341 m); minimum, 0.46 ft³/s (0.013 m³/s) Aug. 28.

Period of record: Maximum discharge, 412 ft³/s (11.7 m³/s) Mar. 18, 1968 (gage height, 5.19 ft or 1.582 m), from rating curve extended above 160 ft³/s (4.53 m³/s); maximum gage height, 5.41 ft (1.649 m) Mar. 7, 1963 (backwater from ice); minimum discharge, 0.15 ft³/s (0.004 m³/s) Sept. 12, 1963.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	5.3	30	58	19	14	21	23	16	33	3.7	1.4
2	3.6	6.0	27	53	34	15	50	21	15	21	6.9	1.8
3	3.1	11	26	34	182	17	45	20	13	16	12	9.6
4	3.0	11	26	29	101	28	37	21	11	13	11	3.8
5	2.6	9.6	30	25	63	30	51	18	10	19	7.4	6.6
6	3.0	9.3	57	22	50	26	49	16	9.9	17	5.3	4.4
7	15	8.3	134	19	41	23	38	15	9.1	12	4.2	4.4
8	21	12	80	17	36	51	33	14	8.6	9.9	3.3	3.6
9	14	55	78	16	33	62	27	15	7.9	8.2	2.9	2.4
10	9.3	27	69	15	29	44	38	18	7.0	6.8	2.7	2.3
11	7.4	17	57	14	24	35	45	24	6.6	7.1	2.8	2.9
12	5.7	14	45	13	22	32	38	25	5.6	7.7	3.7	2.4
13	6.2	12	43	12	20	33	36	19	25	6.5	3.4	2.0
14	6.8	17	38	12	20	30	33	16	34	7.4	2.8	2.1
15	5.6	34	33	13	20	29	35	15	21	9.1	2.4	3.8
16	5.7	23	27	13	18	27	27	18	15	8.4	2.3	3.3
17	3.6	17	23	13	17	39	24	16	12	6.4	2.2	2.6
18	3.5	14	22	14	17	60	21	16	9.3	5.1	2.1	5.1
19	3.4	13	20	17	17	46	19	16	8.3	4.4	2.3	5.7
20	3.2	38	19	25	17	37	18	15	7.2	3.8	4.2	4.5
21	3.3	38	18	21	16	31	17	32	6.8	8.1	3.4	3.6
22	3.3	26	24	17	17	28	15	28	7.0	12	2.3	3.4
23	4.0	22	25	50	16	26	14	23	7.6	7.5	1.9	3.6
24	3.0	20	23	45	15	23	14	19	7.2	5.7	1.6	3.9
25	3.0	18	21	35	14	23	14	17	6.0	4.8	1.5	5.5
26	3.1	40	20	31	13	25	18	16	5.7	3.8	1.4	5.1
27	3.2	48	19	27	13	27	35	15	7.0	6.1	1.2	4.4
28	3.4	37	18	27	13	23	42	15	10	8.9	.69	3.6
29	4.6	33	19	23	------	21	34	25	9.6	6.1	.93	3.6
30	5.2	27	17	21	------	20	27	19	30	5.0	.96	3.4
31	5.1	------	18	19	------	20	------	17	------	4.1	.98	------
TOTAL	170.7	662.5	1,106	750	897	945	915	587	348.4	293.9	104.46	114.8
MEAN	5.51	22.1	35.7	24.2	32.0	30.5	30.5	18.9	11.6	9.48	3.37	3.83
MAX	21	55	134	58	182	62	51	32	34	33	12	9.6
MIN	2.6	5.3	17	12	13	14	14	14	5.6	3.8	.69	1.4
CFSM	.64	2.58	4.16	2.82	3.73	3.55	3.55	2.20	1.35	1.10	.39	.45
IN.	.74	2.87	4.80	3.25	3.89	4.10	3.97	2.55	1.51	1.27	.45	.50

CAL YR 1972 TOTAL 8,823.43 MEAN 24.1 MAX 134 MIN .87 CFSM 2.81 IN 38.26
WTR YR 1973 TOTAL 6,894.76 MEAN 18.9 MAX 182 MIN .69 CFSM 2.20 IN 29.89

PEAK DISCHARGE (BASE, 60 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0945	3.99	128	2-3	0330	4.40	209
12-7	0130	4.03	169	3-8	1730	3.57	79
1-1	1845	3.57	79	3-18	0030	3.46	66

01176000 Quaboag River at West Brimfield, Mass.

LOCATION.--Lat 42°10'56", long 72°15'51", Hampden County, on right bank 10 ft (3 m) upstream from abandoned highway-bridge site at West Brimfield, 0.9 mi (1.4 km) upstream from Blodgett Mill Brook, 3.5 mi (5.6 km) northeast of Palmer, and 9.9 mi (15.9 km) upstream from mouth.

DRAINAGE AREA.--151 mi^2 (391 km^2).

PERIOD OF RECORD.--August 1909 to August 1912 (twice-daily gage heights and corresponding discharges), September 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m) from topographic map. Prior to Aug. 19, 1912, nonrecording gage, and Aug. 19, 1912 to Oct. 31, 1955, water-stage recorder, at several sites 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE.--61 years (1912-73), 240 ft^3/s (6.797 m^3/s), 21.58 in/yr (548 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) Feb. 4 (gage height, 5.99 ft or 1.826 m); minimum, 32 ft^3/s (0.91 m^3/s) Sept. 13, 14.

Period of record: Maximum discharge, 12,800 ft^3/s (362 m^3/s) Aug. 19, 1955 (gage height, 15.36 ft or 4.682 m, from floodmarks, present site and datum), from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 6.6 ft^3/s (0.19 m^3/s) Sept. 28, 29, 1957.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Slight diurnal fluctuation at low flow caused by mill above station prior to 1956; regulation much greater prior to 1938. High flow slightly affected by retarding reservoirs since 1965. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 711: Drainage area. WSP 1301: 1918(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	84	516	871	438	218	404	437	350	411	110	42
2	67	82	489	855	487	223	653	413	339	400	140	41
3	64	90	468	849	1,120	243	659	403	310	360	160	41
4	61	115	455	835	1,180	304	687	405	286	310	155	39
5	59	127	513	786	1,250	357	810	384	267	360	130	40
6	57	134	609	680	1,180	380	766	356	248	350	115	41
7	139	134	866	450	1,060	382	741	328	232	310	100	41
8	154	129	852	410	949	537	733	315	208	250	88	39
9	152	165	957	360	861	653	688	316	192	200	82	38
10	161	212	958	330	786	670	721	326	170	165	74	36
11	155	259	898	310	700	661	736	372	146	180	80	36
12	148	285	851	290	600	637	719	394	140	190	90	35
13	144	284	796	280	500	602	705	399	264	170	84	34
14	135	271	741	270	440	583	673	382	264	145	80	34
15	126	378	693	265	400	556	633	371	234	160	82	45
16	126	377	655	260	370	527	593	375	211	155	76	43
17	119	381	460	261	350	564	553	368	178	135	72	42
18	111	369	370	262	330	628	521	355	162	110	70	59
19	107	347	543	273	320	631	495	325	149	92	68	75
20	100	387	497	363	310	640	464	314	136	80	66	77
21	93	449	476	306	305	626	432	451	124	110	65	76
22	89	465	504	432	300	594	407	411	117	150	64	76
23	85	457	532	627	290	543	369	398	122	140	60	83
24	82	426	523	673	270	507	361	381	116	115	55	90
25	76	400	508	666	250	478	342	360	109	95	53	103
26	73	437	499	656	230	485	356	334	103	85	50	92
27	72	526	489	609	225	482	421	309	105	100	48	89
28	70	531	469	566	220	460	472	304	125	120	48	85
29	77	534	440	519	------	439	462	353	135	115	46	80
30	82	509	419	393	------	415	453	343	353	100	44	73
31	82	------	433	473	------	400	------	358	------	85	42	------
TOTAL	3,138	9,344	18,479	15,180	15,723	15,429	17,031	11,340	5,895	5,748	2,497	1,725
MEAN	101	311	596	490	562	498	568	366	197	185	80.5	57.5
MAX	161	534	958	871	1,250	670	810	451	353	411	160	103
MIN	57	82	370	260	220	218	342	304	103	80	42	34
CFSM	.67	2.06	3.95	3.25	3.72	3.30	3.76	2.42	1.30	1.23	.53	.38
IN.	.77	2.30	4.55	3.74	3.87	3.80	4.20	2.79	1.45	1.42	.62	.42

CAL YR 1972 TOTAL 145,538 MEAN 398 MAX 1,480 MIN 57 CFSM 2.64 IN 35.85
WTR YR 1973 TOTAL 121,529 MEAN 333 MAX 1,250 MIN 34 CFSM 2.21 IN 29.94

PEAK DISCHARGE (BASE, 840 ft^3/s)

NOTE.--No gage-height record July 3 to Aug. 20.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0400	5.53	997				
1-1	1200	5.48	969				
2-4	2230	5.99	1,260				

01177000 Chicopee River at Indian Orchard, Mass.

LOCATION.--Lat 42°09'38", long 72°30'52", Hampden County, on left bank 1,000 ft (300 m) downstream from West Street Bridge at Indian Orchard, 1.1 mi (1.8 km) upstream from Fuller Brook, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--688 mi² (1,782 km²).

PERIOD OF RECORD.--August 1928 to current year. Published as "at Bircham Bend" prior to November 1938.

GAGE.--Water-stage recorder. Altitude of gage is 125 ft (38 m) from topographic map. Prior to Nov. 1, 1938, water-stage recorder at site 1.8 mi (2.9 km) downstream at different datum.

AVERAGE DISCHARGE.--45 years, 1,078 ft³/s (30.53 m³/s), 21.28 in/yr (541 mm/yr), adjusted to present drainage area and for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 5,670 ft³/s (161 m³/s) Feb. 3 (gage height, 9.67 ft or 2.947 m); minimum daily, 222 ft³/s (6.29 m³/s) Sept. 30.

Period of record: Maximum discharge, 45,200 ft³/s (1,280 m³/s) Sept. 21, 1938, by computation of flow over dam; minimum daily, 16 ft³/s (0.45 m³/s) several times in 1929-31.

REMARKS.--Records good. Diversion since 1941 from 186 mi² (482 km²) in Swift River basin and at times since 1931 from 97 mi² (251 km²) in Ware River basin for Boston metropolitan district; since 1950, for Chicopee; since 1952, for South Hadley; and, at times during 1966 and 1967, for Worcester; diversions at times since 1955 from 6.5 mi² (16.8 km) in Ware River basin for Fitchburg. Diversion from Ludlow Reservoir for Springfield and, prior to 1952, for Chicopee. See table below for figures of diversion. Flow regulated by powerplants above station, by Quabbin Reservoir (21 mi or 34 km upstream) on Swift River since 1939, by Barre Falls Reservoir on Ware River since 1958, by Conant Brook Reservoir since 1966 (see p. 215), and by smaller reservoirs.

REVISIONS (WATER YEARS).--WSP 711: Drainage area. WSP 1231: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	334	1,310	3,070	1,080	763	1,080	1,210	992	3,080	444	243
2	340	340	1,310	3,820	1,260	779	2,640	1,160	992	2,330	514	302
3	305	496	1,200	2,580	4,640	908	2,710	1,080	797	1,590	721	332
4	277	514	1,230	2,170	4,300	1,160	2,130	1,170	905	1,470	854	298
5	283	455	1,370	2,020	3,090	1,660	2,590	1,130	596	1,350	800	298
6	276	492	1,750	1,780	2,560	1,460	2,370	999	750	1,510	602	354
7	606	425	3,850	1,230	2,280	1,260	2,020	985	697	1,090	598	327
8	805	352	2,890	1,110	2,020	1,960	1,780	912	763	931	504	286
9	630	980	2,640	1,150	2,000	3,070	1,670	927	777	905	501	229
10	527	877	2,600	1,110	1,680	2,240	1,850	1,040	653	822	501	236
11	478	746	2,320	1,040	1,510	1,850	2,310	1,240	512	809	442	257
12	432	767	1,990	961	1,340	1,740	1,950	1,550	467	829	404	264
13	414	774	1,830	904	1,280	1,700	1,730	1,400	1,150	728	433	260
14	403	923	1,780	818	1,220	1,590	1,560	1,210	1,330	703	405	226
15	397	1,410	1,600	909	1,120	1,500	1,450	1,130	942	610	383	267
16	404	1,230	1,580	881	1,210	1,470	1,350	1,190	777	676	353	278
17	389	1,010	1,220	980	991	1,640	1,310	1,200	659	644	361	282
18	331	937	1,180	900	926	2,370	1,250	1,060	634	551	374	391
19	334	817	1,330	850	974	2,040	1,250	985	641	501	288	415
20	328	1,300	1,280	1,440	996	1,730	1,140	905	553	481	409	354
21	276	1,690	1,230	1,480	849	1,580	1,100	1,710	630	587	371	278
22	298	1,400	1,340	1,310	995	1,480	1,040	1,910	643	855	319	253
23	297	1,150	1,730	2,140	1,100	1,350	1,030	1,490	654	791	360	306
24	321	1,030	1,600	2,290	981	1,280	1,040	1,200	560	602	340	323
25	288	963	1,480	1,820	834	1,210	875	1,400	565	598	301	478
26	299	1,240	1,420	1,590	908	1,330	1,110	940	563	479	285	345
27	277	1,790	1,460	1,470	790	1,570	1,450	980	534	599	323	327
28	247	1,570	1,350	1,350	782	1,370	1,760	970	603	622	304	294
29	320	1,350	1,280	1,320	------	1,230	1,660	1,200	863	571	280	267
30	390	1,250	1,170	1,110	------	1,210	1,400	1,200	1,690	571	255	222
31	347	------	1,230	1,150	------	1,140	------	1,300	------	506	302	------
TOTAL	11,652	28,612	51,550	46,753	43,716	47,640	48,605	36,783	22,952	28,391	13,331	8,992
MEAN	376	954	1,663	1,508	1,561	1,537	1,620	1,187	765	916	430	300
MAX	805	1,790	3,850	3,820	4,640	3,070	2,710	1,910	1,690	3,080	854	478
MIN	247	334	1,170	818	782	763	875	905	467	479	255	222
(†)	+497	+153	+29.8	+31.6	+37.2	+34.5	+23.8	+22.1	+171	+418	+440	+534
MEAN‡	401	1,450	2,460	2,282	2,263	2,592	2,707	1,952	1,140	1,075	429	204
CFSM‡	.58	2.11	3.58	3.32	3.29	3.77	3.93	2.84	1.66	1.56	.62	.30
IN.‡	.67	2.35	4.12	3.82	3.43	4.34	4.39	3.27	1.85	1.80	.72	.33

CAL YR 1972 TOTAL 422,891 MEAN 1,155 MAX 4,810 MIN 226 MEAN‡ 1,663 CFSM‡ 2.42 IN‡ 32.90
WTR YR 1973 TOTAL 388,977 MEAN 1,066 MAX 4,640 MIN 222 MEAN‡ 1,576 CFSM‡ 2.29 IN‡ 31.11

† Diversions, in cubic feet per second, from Ware and Swift River basins for supply of Boston metropolitan district, Chicopee, and South Hadley, and from Ludlow Reservoir for Springfield.

‡ Adjusted for diversions and for change in contents in Quabbin Reservoir (adjusted for diversion from Ware River) and Barre Falls, Conant Brook, and Ludlow Reservoirs.

01179500 Westfield River at Knightville, Mass.

LOCATION.--Lat 42°17'16", long 72°51'53", Hampshire County, on left bank at Knightville, 0.2 mi (0.3 km) downstream from Knightville Dam, 0.2 mi (0.3 km) upstream from Sykes Brook, 2.4 mi (3.9 km) upstream from Middle Branch, 3.5 mi (5.6 km) north of Huntington, and at mile 29.7 (kilometre 47.8).

DRAINAGE AREA.--162 mi^2 (420 km^2).

PERIOD OF RECORD.--August 1909 to current year.

GAGE.--Water-stage recorder. Concrete control since Dec. 20, 1940. Datum of gage is 461.25 ft (140.589 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 11, 1935, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Jan. 11, 1935, to May 20, 1940, water-stage recorder at site 700 ft (200 m) upstream at datum 10.57 ft (3.222 m) higher. May 21 to Dec. 19, 1940, nonrecording gage at site 700 ft (200 m) upstream at datum 18.75 ft (5.715 m) higher.

AVERAGE DISCHARGE.--64 years, 320 ft^3/s (9.062 m^3/s), 26.82 in/yr (681 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,280 ft^3/s (92.9 m^3/s) Apr. 5 (gage height, 5.98 ft or 1.823 m); minimum, 4.6 ft^3/s (0.13 m^3/s) May 31; minimum daily, 34 ft^3/s (0.96 m^3/s) Oct. 6.

Period of record: Maximum discharge, 37,900 ft^3/s (1,070 m^3/s) Sept. 21, 1938 (gage height, 29.58 ft or 9.016 m, from floodmarks, site and datum then in use), from rating curve extended above 3,800 ft^3/s (108 m^3/s) on basis of slope-area measurements at gage heights 24.07 and 29.58 ft (7.337 and 9.016 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Apr. 3, 1965; minimum daily, 1.1 ft^3/s (0.031 m^3/s) Apr. 2, 1965. Maximum discharge since construction of Knightville Reservoir in 1941, 6,660 ft^3/s (189 m^3/s) Mar. 21, 1945 (gage height, 7.45 ft or 2.271 m).

REMARKS.--Records excellent. Flow regulated by Knightville Reservoir since 1941 (see p. 215).

REVISIONS (WATER YEARS).--WSP 415: 1909-12. WSP 1001: 1941-43. WSP 1231: 1910, 1912, 1913(M), 1914-15, 1916-19(M), 1921-23(M), 1925-27(M), 1929-33(M), 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	93	586	607	290	178	679	381	520	155	77	48
2	52	124	578	1,380	349	206	1,220	339	351	268	1,050	48
3	42	467	418	1,970	806	243	2,520	334	289	558	2,210	49
4	38	290	404	460	1,330	251	1,840	506	261	989	664	46
5	35	226	383	393	2,090	595	2,050	371	261	1,210	274	43
6	34	221	410	583	1,650	809	2,830	320	239	1,640	195	43
7	301	228	1,500	318	650	603	1,530	285	221	2,150	157	137
8	999	364	1,160	262	558	698	1,070	256	201	2,000	134	75
9	272	1,700	1,000	265	449	1,230	793	356	173	1,520	121	56
10	151	796	1,150	264	314	1,290	1,110	505	152	240	109	49
11	113	408	864	264	290	1,050	1,590	1,110	133	202	111	44
12	96	433	673	272	293	881	942	907	127	176	155	42
13	105	342	564	271	290	1,630	681	567	287	157	138	39
14	98	395	553	209	294	2,120	576	429	363	152	107	39
15	88	511	526	63	322	1,330	5.6	366	198	175	117	61
16	82	367	428	309	328	1,380	481	657	150	191	459	62
17	76	288	284	361	220	1,450	462	552	134	153	228	51
18	72	266	235	336	210	1,610	440	880	121	132	157	50
19	67	243	370	371	215	1,840	404	1,280	126	117	129	63
20	67	967	417	647	311	2,450	362	681	115	106	110	57
21	96	625	387	822	303	2,350	324	1,510	108	175	97	48
22	88	516	368	763	246	1,130	305	1,560	104	197	87	44
23	77	463	464	1,090	219	751	295	841	109	135	81	49
24	73	294	456	1,670	228	660	280	564	102	106	73	64
25	71	290	374	514	220	592	255	459	108	91	68	75
26	66	659	359	791	211	735	299	411	105	84	63	75
27	64	1,770	360	637	187	1,000	632	377	97	116	60	60
28	63	1,670	303	534	170	998	986	383	188	148	58	52
29	105	993	199	395	------	745	719	638	579	133	59	46
30	152	451	306	305	------	588	473	584	556	122	56	43
31	112	------	365	290	------	594	------	458	------	88	51	------
TOTAL	3,812	16,460	16,444	17,416	13,243	31,987	26,664	18,867	6,478	13,686	7,455	1,658
MEAN	123	549	530	562	473	1,032	889	609	216	441	240	55.3
MAX	999	1,770	1.500	1,970	2,090	2,450	2,830	1,560	579	2,150	2,210	137
MIN	34	93	199	63	170	178	255	256	97	84	51	39
MEAN†	123	549	535	562	471	1,064	852	612	235	419	240	55.3
CFSM†	.76	3.39	3.30	3.47	2.91	6.57	5.26	3.78	1.45	2.59	1.48	.34
IN.†	.88	3.78	3.81	4.00	3.03	7.57	5.87	4.35	1.62	2.98	1.71	.38

CAL YR 1972 TOTAL 180,973 MEAN 494 MAX 2,870 MIN 27 MEAN† 495 CFSM† 3.06 IN† 41.57
WTR YR 1973 TOTAL 174,170 MEAN 477 MAX 2,830 MIN 34 MEAN† 477 CFSM† 2.94 IN† 39.99

† Adjusted for change in contents in Knightville Reservoir.

01180000 Sykes Brook at Knightville, Mass.

LOCATION.--Lat 42°17'27", long 72°52'15", Hampshire County, on right bank 200 ft (60 m) downstream from bridge on State Highway 112 at Knightville, 0.4 mi (0.6 km) upstream from mouth, 0.4 mi (0.6 km) west of Knightville Dam, and 3.5 mi (5.6 km) north of Huntington.

DRAINAGE AREA.--1.64 mi^2 (4.25 km^2).

PERIOD OF RECORD.--June 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 641.40 ft (195.499 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 2.58 ft^3/s (0.073 m^3/s), 21.36 in/yr (543 mm/yr).

EXTREMES.--Current year: Maximum discharge, 85 ft^3/s (2.41 m^3/s) Feb. 2 (gage height, 2.58 ft or 0.786 m); maximum gage height, 2.67 ft (0.814 m) Feb. 3 (backwater from ice); minimum discharge, 0.19 ft^3/s (0.005 m^3/s) Oct. 1, 2, 3, 21, 27.

Period of record: Maximum discharge, 680 ft^3/s (19.2 m^3/s) Aug. 19, 1955 (gage height, 4.485 ft or 1.367 m), from rating curve extended above 80 ft^3/s (2.27 m^3/s); minimum, 0.01 ft^3/s (<0.001 m^3/s) July 28, 1970 (caused by unusual regulation).

REMARKS.--Records good except those for winter period and August and September, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.33	5.4	12	2.3	1.6	6.9	3.5	4.5	14	.65	.56
2	.20	1.0	4.0	9.0	13	2.0	17	3.2	3.8	7.2	32	.56
3	.20	1.6	3.5	6.2	25	2.2	12	3.0	3.0	4.7	29	.56
4	.20	1.2	3.4	5.6	13	6.0	11	4.0	2.8	8.3	3.5	.53
5	.21	1.4	3.3	4.9	9.6	7.1	16	3.3	4.5	16	2.0	.53
6	1.2	1.4	8.0	3.8	7.6	6.3	13	2.9	3.5	8.0	1.4	.56
7	2.6	1.3	8.3	3.3	6.0	6.7	11	2.7	2.7	4.8	1.1	.56
8	.69	5.6	4.3	3.0	5.3	13	8.8	2.5	2.2	3.6	.90	.53
9	.57	6.9	7.3	2.7	4.6	11	7.5	3.9	1.8	2.8	.80	.53
10	1.5	3.5	8.3	2.5	3.6	9.2	13	3.8	1.5	2.3	.70	.53
11	.26	2.7	6.7	2.3	3.1	9.3	11	8.4	1.3	2.0	.80	.53
12	.36	2.2	4.3	2.1	2.8	15	8.2	6.2	1.2	1.6	1.3	.53
13	1.0	1.8	5.2	1.9	2.6	14	7.2	5.3	2.0	1.4	2.0	.53
14	1.5	4.1	6.3	1.7	2.4	12	6.4	4.3	2.5	1.3	1.5	.56
15	.29	4.4	4.8	1.8	2.3	11	5.4	3.9	1.8	1.5	1.2	.69
16	.36	2.7	4.7	1.8	2.3	13	4.9	5.3	1.5	1.5	3.5	.60
17	.36	2.0	3.6	1.9	2.3	38	4.3	4.4	1.3	1.2	2.3	.60
18	.37	1.8	3.2	2.4	2.2	18	4.0	8.2	1.2	1.1	1.6	.64
19	.37	1.6	2.8	3.3	2.1	12	3.8	6.2	1.1	.99	1.3	.64
20	1.0	9.5	2.7	7.7	2.0	10	3.7	5.5	1.0	.96	1.1	.60
21	.56	4.9	2.6	4.9	2.0	8.3	3.2	15	.95	1.5	.95	.56
22	.22	3.2	5.6	5.3	2.1	6.6	2.6	7.6	.93	1.3	.82	.53
23	.94	2.3	5.0	11	2.0	5.6	2.2	5.5	.93	1.0	.74	.64
24	.24	2.0	5.2	8.6	1.9	5.2	2.0	4.5	.86	.92	.69	.64
25	1.0	1.9	4.6	6.7	1.7	5.3	2.0	3.6	.81	.83	.64	.74
26	.32	19	3.6	5.5	1.7	10	2.1	3.2	.77	.73	.64	.64
27	.26	11	3.3	4.7	1.6	8.0	4.5	3.1	1.1	1.4	.64	.60
28	.32	7.2	2.9	4.2	1.6	6.4	6.0	4.0	3.0	1.2	.60	.52
29	.61	6.1	2.5	3.4	------	3.8	4.8	8.3	5.1	.96	.60	.46
30	.38	4.8	2.4	3.0	------	2.3	4.0	4.6	38	.86	.60	.41
31	.33	------	5.2	2.6	------	2.8	------	5.5	------	.73	.56	------
TOTAL	18.62	119.43	143.0	139.8	128.7	281.7	208.5	155.4	97.65	96.68	96.13	17.11
MEAN	.60	3.98	4.61	4.51	4.60	9.09	6.95	5.01	3.26	3.12	3.10	.57
MAX	2.6	19	8.3	12	25	38	17	15	38	16	32	.74
MIN	.20	.33	2.4	1.7	1.6	1.6	2.0	2.5	.77	.73	.56	.41
CFSM	.37	2.43	2.81	2.75	2.80	5.54	4.24	3.05	1.99	1.90	1.89	.35
IN.	.42	2.71	3.24	3.17	2.92	6.39	4.73	3.52	2.21	2.19	2.18	.39

CAL YR 1972 TOTAL 1,450.74 MEAN 3.96 MAX 31 MIN .20 CFSM 2.41 IN 32.91
WTR YR 1973 TOTAL 1,502.72 MEAN 4.12 MAX 38 MIN .20 CFSM 2.51 IN 34.09

PEAK DISCHARGE (BASE, 35 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1000	2.28	40	6-30	0530	2.42	59
2-2	1930	2.58	85	8-2	-	†2.48	68
3-17	0545	2.47	67				

† From peak-stage indicator.

NOTE.--No gage-height record Aug. 1-23. Shifting-control method used Aug. 24 to Sept. 30.

01180500 Middle Branch Westfield River at Goss Heights, Mass.

LOCATION.--Lat 42°15'31", long 72°52'23", Hampshire County, on right bank at upstream side of highway bridge at Goss Heights, 0.3 mi (0.5 km) upstream from mouth, 0.7 mi (1.1 km) downstream from Littleville Dam, and 1.7 mi (2.7 km) north of Huntington.

DRAINAGE AREA.--52.6 mi^2 (136.2 km^2).

PERIOD OF RECORD.--July 1910 to current year.

GAGE.--Water-stage recorder. Datum of gage is 399.30 ft (121.707 m) above mean sea level. Prior to June 25, 1930, datum was 2.00 ft (0.610 m) higher, and June 25, 1930, to Sept. 30, 1964, datum was 1.00 ft (0.305 m) higher. Prior to Sept. 8, 1912, nonrecording gage at same site.

AVERAGE DISCHARGE.--63 years, 103 ft^3/s (2.917 m^3/s), 26.59 in/yr (675 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 736 ft^3/s (20.8 m^3/s) Feb. 5 (gage height, 4.28 ft or 1.305 m); minimum, 6.4 ft^3/s (0.18 m^3/s) Dec. 29, Jan. 5; minimum daily, 7.7 ft^3/s (0.22 m^3/s) Oct. 6.

Period of record: Maximum discharge, 19,900 ft^3/s (564 m^3/s) Sept. 21, 1938 (gage height, 11.61 ft or 3.539 m, present datum), from rating curve extended above 3,200 ft^3/s (90.6 m^3/s) on basis of mean of two contracted-opening measurements of peak flow; maximum gage height, 14.87 ft (4.532 m), present datum, Mar. 12, 1936 (ice jam); practically no flow Sept. 3, 22, Oct. 20, 1910, July 30, 1912, Oct. 26, 27, 1914. Maximum discharge since construction of Littleville Dam in 1965, 1,360 ft^3/s (38.5 m^3/s) Apr. 25, 1972 (gage height, 5.05 ft or 1.539 m).

REMARKS.--Records good. Some diurnal fluctuation at low flow prior to 1952 caused by mill above station. Flow regulated by Littleville Lake (see p. 215) since 1965.

REVISIONS (WATER YEARS).--WSP 415: 1910-13. WSP 781: 1933(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	33	184	457	86	50	189	132	161	8.8	26	16
2	9.6	35	207	553	129	51	364	110	130	38	65	16
3	9.2	100	145	326	443	58	514	104	101	142	342	18
4	8.7	120	127	99	636	87	361	123	86	348	329	16
5	8.2	96	120	239	577	169	367	112	84	432	275	14
6	7.7	80	153	224	275	198	589	99	84	510	121	13
7	50	74	502	122	193	171	565	87	76	622	71	15
8	193	98	384	90	159	270	364	78	64	549	51	16
9	113	439	332	78	138	432	251	90	56	326	40	14
10	64	306	361	77	107	397	267	132	48	120	35	12
11	43	173	317	77	99	311	446	260	41	71	33	12
12	34	143	224	75	86	335	411	303	38	54	33	11
13	31	122	193	73	86	541	246	264	45	45	41	9.9
14	29	122	186	60	87	594	186	178	56	42	38	10
15	28	173	155	41	94	397	156	136	48	41	37	15
16	26	140	142	91	90	401	134	184	39	45	99	17
17	25	107	118	74	73	407	121	193	34	42	99	15
18	23	92	101	70	63	387	112	241	31	38	72	16
19	21	80	102	86	65	432	104	314	30	33	54	17
20	20	219	102	278	69	537	96	300	29	30	43	17
21	18	209	98	264	68	573	87	326	26	35	36	14
22	18	198	113	189	69	521	71	335	26	48	30	13
23	18	205	153	374	67	472	77	323	26	42	26	15
24	18	101	134	450	62	380	73	309	24	33	23	17
25	17	86	117	209	58	207	69	216	24	26	21	20
26	16	254	110	270	58	246	78	142	26	23	20	20
27	16	517	109	175	52	300	152	117	26	25	19	19
28	16	581	107	147	47	294	259	110	36	39	20	17
29	23	374	70	138	------	264	236	173	90	35	20	15
30	34	198	98	113	------	191	171	173	114	38	20	13
31	36	------	113	100	------	173	------	167	------	30	18	------
TOTAL	982.3	5,475	5,377	5,619	4,036	9,846	7,116	5,831	1,699	3,910.8	2,157	452.9
MEAN	31.7	183	173	181	144	318	237	188	56.6	126	69.6	15.1
MAX	193	581	502	553	636	594	589	335	161	622	342	20
MIN	7.7	33	70	41	47	50	69	78	24	8.8	18	9.9
MEAN†	33.1	189	170	182	141	321	238	188	70.8	107	69.6	15.1
CFSM†	.63	3.59	3.23	3.46	2.68	6.10	4.52	3.57	1.35	2.03	1.32	.29
IN†	.73	4.01	3.72	3.98	2.80	7.05	5.04	4.12	1.50	2.34	1.53	.32

CAL YR 1972 TOTAL 60,913.5 MEAN 166 MAX 1,240 MIN 5.9 MEAN† 166 CFSM† 3.16 IN† 43.06
WTR YR 1973 TOTAL 52,502.0 MEAN 144 MAX 636 MIN 7.7 MEAN† 144 CFSM† 2.74 IN† 37.14

† Adjusted for change in contents in Littleville Lake.

01180800 Walker Brook near Becket Center, Mass.

LOCATION.--Lat 42°15'49", long 73°02'48", Berkshire County, on right bank 20 ft (6 m) upstream from culvert on U. S. Highway 20, 0.2 mi (0.3 km) east of Bonny Rigg Corners, 1.7 mi (2.7 km) southeast of Becket Center, and 3.5 mi (5.6 km) west of Chester.

DRAINAGE AREA.--3.01 mi² (7.80 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962. November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73), 6.26 ft³/s (0.177 m³/s), 28.24 in/yr (717 mm/yr).

EXTREMES.--Current year: Maximum discharge, 161 ft³/s (4.56 m³/s) Aug. 2 (gage height, 5.41 ft or 1.649 m); minimum, 0.50 ft³/s (0.014 m³/s) Oct. 6.
Period of record: Maximum discharge, 299 ft³/s (8.47 m³/s) June 30, 1972 (gage height, 6.56 ft or 1.999 m), from rating curve extended above 93 ft³/s (2.63 m³/s); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 11, 1963, Aug. 24, 1965.

REMARKS.--Records good. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report. Recording rain gage at station since May 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.7	11	51	5.6	2.7	14	8.2	8.9	14	1.6	1.7
2	.63	6.1	8.6	24	24	3.6	37	7.4	7.4	6.7	46	1.4
3	.58	15	7.4	13	62	4.8	18	8.7	5.4	4.5	19	1.5
4	.58	8.3	6.6	11	25	11	17	11	4.8	22	7.9	1.3
5	.54	6.4	6.4	11	16	15	22	8.2	4.5	37	4.1	1.1
6	.50	6.4	29	7.4	11	12	21	6.9	4.3	15	3.1	1.2
7	19	5.6	33	5.9	9.2	9.4	18	6.1	4.1	7.7	1.9	1.2
8	13	20	15	5.4	8.2	29	14	5.6	3.3	5.0	1.4	.84
9	4.7	33	23	4.9	6.5	24	12	8.7	2.7	4.0	1.5	1.4
10	2.2	13	20	4.4	5.9	19	26	9.2	2.3	2.7	1.4	.79
11	1.7	9.1	15	4.0	5.2	16	21	34	1.7	2.3	1.7	.79
12	1.7	9.7	11	3.8	4.6	30	15	18	1.8	1.8	4.6	.84
13	2.2	7.2	12	3.6	4.5	36	12	13	4.5	1.8	5.4	.73
14	1.6	10	10	3.6	4.3	23	10	10	4.5	1.7	3.1	1.1
15	3.4	13	7.2	3.6	4.8	20	9.2	8.7	2.6	2.5	4.5	2.6
16	2.0	8.3	8.3	3.8	4.6	25	8.2	16	2.1	3.3	9.7	1.7
17	1.8	5.9	6.4	3.8	4.1	71	7.7	11	1.7	1.8	5.6	1.3
18	6.6	4.9	5.4	5.2	4.3	47	7.4	25	1.7	1.8	3.4	1.7
19	17	4.4	5.4	9.4	4.0	26	6.7	18	1.7	1.7	2.8	1.7
20	17	25	5.2	32	3.8	14	6.3	13	1.4	1.4	2.3	14
21	15	15	4.9	14	3.6	11	5.6	35	1.1	5.4	1.9	11
22	11	8.3	10	11	3.6	9.4	5.2	18	1.5	4.6	1.6	10
23	4.0	5.4	11	32	3.6	8.9	4.8	11	1.9	2.3	1.5	20
24	1.4	5.2	7.7	18	3.4	7.9	5.0	9.2	1.7	1.7	1.4	23
25	1.3	4.9	6.9	12	3.1	7.7	4.8	7.9	1.4	1.4	1.4	25
26	1.3	43	6.6	9.4	3.1	21	11	6.9	1.4	1.4	1.3	16
27	1.2	29	6.4	8.4	2.8	14	19	6.7	1.4	6.1	1.4	12
28	1.1	16	5.9	8.2	2.8	9.2	19	7.9	4.6	4.6	3.6	9.5
29	3.2	16	4.7	7.2	------	7.7	14	13	12	2.7	3.6	8.0
30	3.6	10	4.4	7.7	------	6.7	9.4	9.4	45	1.8	2.3	7.0
31	2.8	------	12	6.3	------	6.7	------	12	------	1.5	1.7	------
TOTAL	143.73	365.8	326.4	345.0	243.6	548.7	400.3	383.7	143.4	172.2	152.7	180.39
MEAN	4.64	12.2	10.5	11.1	8.70	17.7	13.3	12.4	4.78	5.55	4.93	6.01
MAX	19	43	33	51	62	71	37	35	45	37	46	25
MIN	.50	1.7	4.4	3.6	2.8	2.7	4.8	5.6	1.1	1.4	1.3	.73
CFSM	1.54	4.05	3.49	3.69	2.89	5.88	4.42	4.12	1.59	1.84	1.64	2.00
IN.	1.78	4.52	4.03	4.26	3.01	6.78	4.95	4.74	1.77	2.13	1.89	2.23

CAL YR 1972 TOTAL 3,743.87 MEAN 10.2 MAX 101 MIN .34 CFSM 3.39 IN 46.27
WTR YR 1973 TOTAL 3,405.92 MEAN 9.33 MAX 71 MIN .50 CFSM 3.10 IN 42.09

PEAK DISCHARGE (BASE, 80 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2000	4.53	83				
2-3	0215	4.79	103				
3-17	1600	5.28	148				
8-2	1115	5.41	161				

01181000 West Branch Westfield River at Huntington, Mass.

LOCATION.--Lat 42°14'14", long 72°53'46", Hampshire County, on left bank at Huntington, 0.4 mi (0.6 km) downstream from Roaring Brook and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--93.7 mi² (242.7 km²).

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 388.60 ft (118.445 m) above mean sea level.

AVERAGE DISCHARGE.--38 years, 184 ft³/s (5.211 m³/s), 26.67 in/yr (677 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,750 ft³/s (163 m³/s) Mar. 17 (gage height, 7.07 ft or 2.155 m); minimum, 15 ft³/s (0.42 m³/s) Oct. 5.

Period of record: Maximum discharge, 26,100 ft³/s (739 m³/s) Aug. 19, 1955 (gage height, 15.27 ft or 4.654 m), from rating curve extended above 9,500 ft³/s (269 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.3 ft³/s (0.093 m³/s) Aug. 9, 1955, Nov. 27, 1957.

REMARKS.--Records good. Prior to 1950, some diurnal fluctuation at low flow caused by small mill above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	43	357	1,700	174	96	435	205	270	528	36	33
2	23	67	277	859	728	102	1,550	190	236	251	1,120	31
3	19	288	235	479	2,640	132	735	195	181	157	429	30
4	18	156	220	400	895	277	620	255	162	465	192	26
5	16	121	209	375	570	493	931	210	157	960	120	24
6	18	119	814	240	413	400	673	175	148	390	82	25
7	310	119	1,430	192	350	304	549	155	133	225	53	29
8	263	254	528	190	304	1,020	459	135	113	160	52	27
9	97	1,140	823	170	249	904	354	210	95	124	48	22
10	62	344	752	160	202	695	877	300	70	100	43	21
11	46	209	620	150	190	570	696	900	67	83	44	19
12	43	240	394	150	151	1,030	435	400	59	70	73	19
13	48	183	413	145	174	1,270	359	300	116	63	135	17
14	46	273	363	145	171	823	308	240	150	55	76	18
15	45	413	277	140	166	680	274	200	88	56	75	41
16	46	231	273	145	153	959	251	350	67	66	221	36
17	50	177	202	132	130	2,730	228	270	61	58	139	27
18	51	153	198	148	153	1,550	215	600	55	53	98	27
19	55	139	209	231	177	688	202	500	56	43	76	35
20	50	736	186	1,000	139	479	175	350	49	37	63	27
21	45	472	168	413	123	374	157	1,200	46	95	56	22
22	42	249	316	299	123	325	148	570	43	100	48	20
23	37	171	381	1,360	115	297	141	369	44	58	45	33
24	31	161	259	736	108	258	143	295	40	41	40	41
25	34	148	224	459	110	251	130	251	38	33	36	49
26	32	1,610	217	350	102	658	187	225	34	30	34	37
27	29	1,000	202	299	91	493	374	215	34	70	31	30
28	28	526	186	277	92	336	465	232	88	95	39	26
29	47	563	161	254	------	287	317	400	247	59	73	23
30	67	357	153	213	------	262	239	279	2,050	53	48	21
31	51	------	310	198	------	266	------	336	------	43	37	------
TOTAL	1,776	10,664	11,357	11,997	8,983	18,901	12,608	10,512	5,006	4,612	3,673	836
MEAN	57.3	355	366	387	321	610	420	339	167	149	118	27.9
MAX	310	1,610	1,430	1,700	2,640	2,730	1,550	1,200	2,050	960	1,120	49
MIN	16	43	153	132	91	96	130	135	34	30	31	17
CFSM	.61	3.79	3.91	4.13	3.43	6.51	4.48	3.62	1.78	1.59	1.26	.30
IN.	.71	4.23	4.51	4.76	3.57	7.50	5.01	4.17	1.99	1.83	1.46	.33

CAL YR 1972 TOTAL 114,574 MEAN 313 MAX 3,640 MIN 15 CFSM 3.34 IN 45.49
WTR YR 1973 TOTAL 100,925 MEAN 277 MAX 2,730 MIN 16 CFSM 2.96 IN 40.07

PEAK DISCHARGE (BASE, 2,700 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1530	5.16	3,060	3-17	1745	7.07	5,750
12-6	2215	5.40	3,340	6-30	1045	5.42	3,360
2-3	0315	6.01	4,120	8-2	1330	5.57	3,540

01183000 Westfield Little River at outlet of Cobble Mountain Reservoir, near Westfield, Mass.

LOCATION.--Lat 42°07'34", long 72°53'37", Hampden County, at Cobble Mountain Dam, 7.5 mi (12.1 km) west of Westfield, and at mi 13.0 (kilometre 20.9).

DRAINAGE AREA.--45.8 mi² (118.6 km²).

PERIOD OF RECORD.--July 1905 to current year. Published as "near Blandford" 1905-11 and as "near Westfield" 1912-35.

GAGE.--Venturi meters at outlet tunnel at powerhouse 2.4 mi (3.9 km) downstream. Prior to Mar. 1, 1910, nonrecording gage at site 0.2 mi (0.3 km) upstream and Mar. 1, 1910, to Sept. 30, 1935, water-stage recorder at diversion dam 2.8 mi (4.5 km) downstream.

AVERAGE DISCHARGE.--63 years (1910-73), 88.9 ft³/s (2.518 m³/s), 26.36 in/yr (670 mm/yr), adjusted to present drainage area.

REMARKS.--Discharge computed on basis of flow through venturi meters and flow over reservoir spillway or through bypass tunnel. Flow regulated by Borden Brook Reservoir since 1910 and Cobble Mountain Reservoir since August 1931 (see p.2[illegible]); discharge adjusted for effect of this regulation. No flow over spillway or through bypass tunnel during year.

COOPERATION.--Records furnished by Springfield Board of Water Commissioners.

REVISIONS.--WSP 501: Drainage area.

MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Month	Mean	Per square mile	Runoff in inches
October	33.9	0.74	0.85
November	191	4.17	4.66
December	164	3.58	4.14
Calendar year 1972	142	3.10	42.27
January	156	3.41	3.93
February	120	2.62	2.74
March	239	5.22	6.02
April	210	4.59	5.12
May	144	3.14	3.62
June	80.6	1.76	1.96
July	89.9	1.96	2.26
August	24.3	.53	.61
September	.67	.01	.02
Water year 1972-73	121	2.64	35.93

01183450 Great Brook near Westfield, Mass.

LOCATION.--Lat 42°05'18", long 72°43'24", Hampden County, on left bank 50 ft (15 m) downstream from bridge on Shaker Rd., 0.4 mi (0.6 km) downstream from Kellog Brook, 1.4 mi (2.3 km) upstream from mouth, and 2.5 mi (4.0 km) southeast of center of Westfield.

DRAINAGE AREA.--29.2 mi² (75.6 km²).

PERIOD OF RECORD.--November 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 135 ft (41.1 m) from topographic map.

EXTREMES.--November 1972 to September 1973: Maximum discharge, 517 ft³/s (14.6 m³/s) Feb. 3 (gage height, 4.89 ft or 1.490 m), from rating curve extended above 270 ft³/s (7.65 m³/s); minimum, 10 ft³/s (0.28 m³/s) Sept. 12, 13.

REMARKS.--Records good except those for winter period, which are fair. Diversion above station for municipal supply of West Springfield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR NOVEMBER 1972 TO SEPTEMBER 1973

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		81	148	44	38	59	56	46	252	20	13
2		97	156	58	56	194	52	43	84	51	14
3		65	85	370	58	135	53	39	46	55	13
4		58	69	213	98	96	62	37	46	37	13
5		62	74	123	103	166	55	37	56	29	12
6		96	65	91	78	111	48	36	57	24	13
7		218	47	78	67	80	45	35	46	23	14
8		130	41	73	105	69	43	32	39	21	13
9		94	39	75	122	63	54	30	35	21	13
10	61	112	37	68	82	118	66	30	33	20	12
11	36	97	36	61	69	157	86	28	31	19	12
12	32	69	35	51	67	89	85	26	30	19	11
13	30	64	34	45	70	73	61	39	28	19	11
14	59	67	35	44	62	65	53	40	28	19	13
15	115	60	36	47	57	60	47	32	27	18	22
16	70	57	37	47	57	57	53	29	29	18	17
17	44	57	38	46	75	54	52	28	27	18	15
18	38	53	43	45	121	53	73	27	25	17	20
19	35	51	53	45	77	52	89	27	24	17	19
20	90	51	110	43	60	53	60	27	23	17	16
21	104	51	80	43	53	50	129	26	29	17	15
22	53	66	65	58	49	47	115	25	30	17	14
23	41	92	235	64	47	46	67	24	26	17	20
24	37	75	122	51	44	51	58	24	24	16	18
25	37	69	68	43	43	48	53	23	22	15	17
26	127	68	59	39	70	56	49	22	22	14	16
27	197	69	58	37	82	89	48	24	24	14	15
28	79	67	49	37	56	115	53	44	28	14	14
29	58	54	46	------	48	92	92	83	25	13	14
30	50	47	49	------	45	65	68	175	23	12	13
31	------	61	46	------	44	------	52	------	21	12	------
TOTAL		2,358	2,095	2,039	2,103	2,463	1,977	1,138	1,240	643	442
MEAN		76.1	67.6	72.8	67.8	82.1	63.8	37.9	40.0	20.7	14.7
MAX		218	235	370	122	194	129	175	252	55	22
MIN		47	34	37	38	46	43	22	21	12	11
MEAN†		80.2	71.9	77.4	72.8	86.8	68.3	44.3	46.7	27.6	21.7
CFSM†		2.75	2.46	2.65	2.49	2.97	2.34	1.52	1.60	.95	.74
IN.†		3.17	2.84	2.76	2.87	3.32	2.70	1.69	1.84	1.09	.83

PEAK DISCHARGE (BASE, 240 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0245	3.97	279	2-3	1115	4.89	517
12-7	1015	3.95	275	4-2	1415	3.81	247
1-23	1315	3.95	275	7-1	0530	4.13	318

† Adjusted for diversion for municipal supply of West Springfield; records furnshed by town of West Springfield.

01183500 Westfield River near Westfield, Mass.

LOCATION.--Lat 42°06'24", long 72°41'58", Hampden County, on left bank 0.7 mi (1.1 km) downstream from Great Brook, 3 mi (5 km) east of Westfield, and 8.1 mi (13.0 km) upstream from mouth.

DRAINAGE AREA.--497 mi² (1,287 km²).

PERIOD OF RECORD.--June 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 98.25 ft (29.947 m) above mean sea level. Prior to Nov. 3, 1933, on right bank at same datum.

AVERAGE DISCHARGE.--59 years, 938 ft³/s (26.56 m³/s), 25.63 in/yr (651 mm/yr), adjusted for diversion and, since October 1931, for storage.

EXTREMES.--Current year: Maximum discharge, 7,870 ft³/s (223 m³/s) Mar. 17 (gage height, 10.94 ft or 3.335 m); minimum, 110 ft³/s (3.12 m³/s) Sept. 14; minimum daily, 142 ft³/s (4.02 m³/s) Oct. 6.

Period of record: Maximum discharge, 70,300 ft³/s (1,990 m³/s) Aug. 19, 1955 (gage height, 34.2 ft or 10.42 m, from floodmarks), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of computations of flow over dam at gage heights 27.20, 29.40, and 34.2 ft (8.291, 8.961, and 10.42 m); minimum, 9 ft³/s (0.25 m³/s) Oct. 2, 1921; minimum daily, 40 ft³/s (1.13 m³/s) Dec. 28, 29, 1914.

REMARKS.--Records excellent. Flow regulated by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, Knightville Reservoir since 1941, and Littleville Lake since 1965 (see p. 215). High flow slightly affected by retarding reservoirs since 1963. Diversion above station from Westfield Little River for municipal supply of Springfield. See table below for figures of diversion. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 601: 1924(M). WSP 756: Drainage area. WSP 1051: 1919-21(M), 1925(M). WSP 1231: 1915-16(M), 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	345	1,670	3,140	1,260	680	1,630	1,200	1,450	2,200	313	331
2	205	341	1,760	3,310	1,440	650	4,250	1,070	1,150	1,200	931	210
3	193	768	1,230	3,250	5,360	768	4,680	1,030	904	1,450	3,670	167
4	172	828	1,240	2,140	3,700	1,060	4,370	1,310	817	1,840	2,130	303
5	172	623	1,200	1,330	3,760	1,580	4,360	1,100	967	3,850	1,030	443
6	142	584	1,620	1,640	3,280	2,000	5,220	938	948	3,140	724	270
7	521	564	4,410	1,130	2,270	1,730	3,610	879	1,060	3,290	554	270
8	1,840	670	3,220	1,250	1,780	2,360	2,570	783	767	3,130	432	258
9	921	3,460	2,610	1,100	1,780	3,240	2,160	903	601	2,930	417	207
10	508	2,160	2,910	1,050	1,180	2,950	2,900	1,300	526	1,660	402	177
11	388	1,130	2,590	1,050	1,060	2,490	3,750	2,560	718	1,040	373	167
12	331	1,020	2,020	980	1,150	2,490	2,800	2,390	803	818	345	169
13	313	914	1,850	818	1,130	3,640	2,300	1,680	642	597	496	157
14	306	1,060	1,770	717	1,150	4,080	1,720	1,370	862	519	406	162
15	290	1,740	1,620	590	1,190	3,020	1,450	1,130	640	502	345	248
16	290	1,190	1,360	806	1,290	2,970	1,330	1,650	473	570	675	242
17	273	895	1,150	856	802	4,670	1,280	1,690	485	539	837	225
18	270	799	1,150	886	710	4,700	1,190	2,430	449	476	587	261
19	267	691	1,100	966	717	3,600	1,140	2,860	413	464	470	242
20	258	1,920	1,300	2,230	773	3,730	1,060	1,900	405	495	500	222
21	267	2,070	1,260	1,980	910	3,940	982	4,030	389	498	400	205
22	290	1,380	1,410	1,820	916	2,760	889	3,720	383	698	420	199
23	258	1,320	1,590	3,600	838	1,970	862	2,640	377	507	470	236
24	264	805	1,310	3,510	746	1,800	861	1,810	356	413	500	236
25	230	789	1,170	2,170	644	1,470	796	1,450	355	363	300	270
26	264	3,050	1,100	1,910	665	2,070	847	1,210	352	363	280	283
27	222	3,910	1,150	1,770	674	2,510	1,800	1,100	352	373	540	239
28	213	3,520	1,100	1,470	653	2,120	2,500	1,100	546	589	580	202
29	264	2,550	936	1,540	------	1,860	1,980	1,820	1,390	363	620	193
30	355	1,670	821	1,550	------	1,490	1,410	1,660	4,420	417	686	175
31	366	------	1,150	1,240	------	1,430	------	1,440	------	363	703	------
TOTAL	10,825	42,766	50,777	51,799	41,828	75,828	66,657	52,153	23,960	35,657	21,136	6,969
MEAN	349	1,426	1,638	1,671	1,494	2,446	2,222	1,682	799	1,150	682	232
MAX	1,840	3,910	4,410	3,600	5,360	4,700	5,220	4,030	4,420	3,850	3,670	443
MIN	142	341	821	590	644	650	796	783	352	363	280	157
CFSM	.70	2.87	3.30	3.36	3.01	4.92	4.47	3.38	1.61	2.31	1.37	.47
IN.	.81	3.20	3.80	3.88	3.13	5.68	4.99	3.90	1.79	2.67	1.58	.52
(†)	59.0	50.5	44.1	46.8	46.1	46.8	55.3	60.5	74.3	70.5	75.9	69.3
MEAN ‡	389	1,614	1,713	1,708	1,484	2,698	2,318	1,746	871	1,127	611	219
CFSM ‡	.78	3.25	3.45	3.44	2.99	5.43	4.66	3.51	1.75	2.27	1.23	.44
IN‡	.90	3.62	3.98	3.96	3.11	6.26	5.21	4.05	1.95	2.62	1.42	.49

CAL YR 1972 TOTAL 528,167 MEAN 1,443 MAX 7,900 MIN 135 MEAN‡ 1,494 CFSM‡ 3.01 IN‡ 40.92
WTR YR 1973 TOTAL 480,355 MEAN 1,316 MAX 5,360 MIN 142 MEAN‡ 1,375 CFSM‡ 2.77 IN‡ 37.57

† Diversion in cubic feet per second, from Westfield Little River for municipal supply of Springfield.
‡ Adjusted for diversion and for change in contents in Borden Brook, Cobble Mountain, and Knightville Reservoirs and Littleville Lake.

01184000 Connecticut River at Thompsonville, Conn.

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, on right bank just upstream from Enfield Dam, 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, and at mile 68.2 (kilometre 109.7).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorders on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft (11.729 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 16,180 ft³/s (458.2 m³/s) 22.74 in/yr (578 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 100,000 ft³/s (2,830 m³/s) Mar. 19 (gage height, 7.04 ft or 2.146 m); minimum daily, 2,080 ft³/s (58.9 m³/s) Sept. 3.

Period of record: Maximum discharge, 282,000 ft³/s (7,990 m³/s) Mar. 20, 1936 (gage height, 16.6 ft or 5.06 m, from floodmarks); minimum daily, 968 ft³/s (27.4 m³/s) Oct. 20, 1963.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light & Power Co. Flow regulated by powerplants, by diversion from Chicopee River basin (see table below), and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir (see p. 215), and other reservoirs (combined usable capacity, 107,000,000,000 ft³ or 3,030,000,000 m³). Records of chemical analyses and water temperatures for the current year for this station and for station 01183750 (Connecticut River at Agawam, Mass.), 4.5 mi (7.2 km) upstream, are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,220	6,090	28,800	21,000	21,100	13,100	26,400	28,600	28,300	79,100	9,610	8,840
2	3,760	7,350	25,900	29,700	20,400	12,800	48,500	26,600	25,600	95,900	9,940	4,080
3	3,140	8,750	23,000	31,300	38,600	13,400	73,000	26,900	24,400	90,200	24,600	2,080
4	2,980	11,000	19,900	30,100	55,100	14,200	77,400	27,900	23,200	78,700	18,200	4,730
5	3,290	10,100	18,000	26,400	52,200	15,400	73,900	22,700	17,500	72,900	11,100	7,570
6	3,880	9,160	20,500	25,000	47,300	17,900	63,200	23,600	15,500	70,300	7,140	6,210
7	5,030	10,500	29,400	16,600	41,000	19,300	58,600	21,600	18,900	55,000	8,320	5,220
8	12,300	11,400	41,900	16,500	36,200	21,700	52,100	19,700	18,800	45,200	7,640	4,520
9	11,500	18,200	37,900	14,900	33,100	30,400	43,600	18,400	18,700	40,800	7,130	3,060
10	8,080	29,600	35,100	12,500	26,900	39,400	41,900	18,900	13,500	34,600	8,030	3,920
11	6,490	24,500	34,100	14,300	20,700	39,300	45,600	23,100	9,400	24,000	7,240	4,280
12	5,360	22,800	28,500	15,900	19,100	35,700	41,600	34,700	12,200	20,100	7,190	5,080
13	5,540	17,900	25,400	16,200	18,600	45,700	33,800	31,200	14,800	17,400	5,170	4,580
14	6,360	17,200	24,700	13,600	17,400	62,200	30,500	27,400	18,600	15,300	7,130	3,950
15	5,370	19,900	26,400	11,000	19,100	62,800	26,100	24,600	19,700	13,200	5,930	5,110
16	4,980	18,300	21,600	11,300	21,000	53,000	23,300	24,300	17,100	13,500	7,260	2,780
17	6,530	14,700	14,000	14,500	15,800	56,800	24,400	30,400	15,400	12,100	7,050	3,910
18	6,850	13,400	15,000	14,700	16,400	86,500	28,900	30,400	22,000	10,600	4,530	7,160
19	6,540	10,600	16,700	14,600	15,400	97,400	36,600	35,300	27,700	10,100	3,960	8,530
20	7,060	12,200	16,900	17,000	15,900	85,300	33,700	30,500	21,200	8,970	5,400	8,770
21	6,130	22,800	18,300	23,100	17,000	73,300	34,400	37,300	17,000	10,500	4,610	8,850
22	3,850	24,100	19,200	26,600	17,400	62,400	30,600	58,400	19,100	9,190	4,960	8,080
23	2,840	18,900	20,100	36,400	17,300	51,600	27,900	65,500	16,200	7,300	5,020	6,040
24	3,710	14,300	17,800	54,500	17,000	39,300	32,900	62,700	16,500	7,170	5,090	9,330
25	4,560	13,200	18,500	54,500	15,600	31,900	35,400	50,300	17,000	6,310	4,170	9,320
26	4,540	17,200	16,100	49,900	11,700	37,200	33,300	38,700	15,200	7,230	2,370	9,050
27	4,300	38,900	16,600	40,200	13,500	43,500	33,500	30,800	12,700	6,470	3,470	6,990
28	4,040	42,200	16,300	32,500	14,800	46,600	33,700	28,700	14,400	9,060	5,510	7,130
29	4,170	36,500	14,900	28,400	------	42,600	32,000	26,900	16,700	7,080	6,090	5,660
30	6,890	33,000	14,400	23,900	------	34,900	31,600	28,600	37,600	6,520	5,970	4,560
31	8,490	------	14,700	22,900	------	25,600	------	27,500	------	7,370	7,130	------
TOTAL	173,650	556,750	691,600	759,800	675,700	1,310.2M	1,218.4M	982,200	556,100	893,170	226,960	179,300
MEAN	5,602	18,560	22,310	24,510	24,130	42,260	40,610	31,680	18,870	28,810	7,321	5,977
MAX	12,300	42,200	41,900	54,500	55,100	97,400	77,400	65,500	37,600	96,900	24,600	9,330
MIN	2,840	7,350	14,000	11,000	11,700	12,800	23,300	18,400	9,400	6,310	2,370	2,080
(†)	475	126	.25	.40	6.47	2.70	0	0	146	395	415	510
MEAN‡	5,790	20,010	22,110	24,210	22,400	43,940	44,770	33,410	21,190	26,800	6,728	5,227
CFSM‡	.60	2.07	2.29	2.51	2.32	4.55	4.63	3.46	2.19	2.77	.70	.54
IN.‡	.69	2.31	2.64	2.89	2.42	5.25	5.17	3.99	2.45	3.20	.80	.60

CAL YR 1972 TOTAL 7,239,380 MEAN 19,780 MAX 89,500 MIN 2,770 MEAN‡ 20,340 CFSM‡ 2.11 IN‡ 28.66
WTR YR 1973 TOTAL 8,233,830 MEAN 22,560 MAX 97,400 MIN 2,080 MEAN‡ 23,060 CFSM‡ 2.39 IN‡ 32.41

M Expressed in thousands.

† Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.

‡ Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Borden Brook and Cobble Mountain Reservoirs listed on page 215 and for diversion from Chicopee River basin.

01185100 Fall River below Otis Reservoir, near Otis, Mass.

LOCATION.--Lat 42°09'42", long 73°03'48", Berkshire County, on right bank 0.4 mi (0.6 km) downstream from Otis Reservoir, 0.5 mi (0.8 km) upstream from mouth, and 2.6 mi (4.2 km) southeast of Otis.

DRAINAGE AREA.--16.5 mi² (42.7 km²).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,260 ft (384 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 310 ft³/s (8.78 m³/s) Oct. 8 (gage height, 4.89 ft or 1.490 m); minimum daily, 0.68 ft³/s (0.019 m³/s) June 20.

Period of record: Maximum discharge, 422 ft³/s (12.0 m³/s) July 2, 1972 (gage height, 5.41 ft or 1.649 m); minimum daily, 0.68 ft³/s (0.019 m³/s) June 20, 1973.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Otis Reservoir (see p. 215).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.6	228	73	46	47	4.5	.86	49	140	2.9	17
2	1.3	3.6	226	130	51	47	7.1	.82	23	41	9.4	16
3	1.3	3.6	224	150	103	26	6.4	1.1	27	6.3	107	16
4	1.3	53	219	100	133	12	6.2	33	27	57	44	16
5	1.3	3.6	219	14	131	13	7.3	58	27	272	5.6	16
6	1.3	3.6	219	19	129	13	6.4	36	27	89	5.6	16
7	177	3.6	221	24	127	13	200	.79	19	6.1	5.8	15
8	287	3.6	218	24	127	15	151	.75	2.2	8.6	5.9	14
9	137	3.6	218	24	127	12	2.1	18	1.8	38	6.3	14
10	3.6	3.6	218	24	76	5.8	4.1	51	1.7	130	6.7	11
11	3.6	3.6	64	24	4.1	5.2	4.1	55	1.7	128	6.7	3.6
12	3.6	3.6	5.6	24	4.0	5.6	3.0	55	1.7	36	6.8	3.2
13	3.6	3.6	5.2	14	3.7	6.2	2.2	55	16	3.5	6.9	3.2
14	3.6	41	4.9	2.3	3.7	5.8	2.0	55	26	3.1	7.0	3.2
15	3.6	115	16	2.2	3.7	5.3	1.6	55	25	3.0	7.1	3.5
16	96	166	16	12	3.7	5.6	1.5	91	24	3.1	7.2	3.5
17	38	240	32	22	3.7	10	1.3	72	24	3.1	7.9	3.3
18	3.6	246	66	22	3.6	10	1.3	77	13	2.9	8.9	3.2
19	3.6	240	81	34	3.5	7.3	1.2	120	.75	2.9	9.7	3.1
20	3.6	240	81	47	3.4	5.6	1.1	78	.68	2.5	9.1	3.0
21	145	235	81	47	3.4	4.7	1.0	123	.72	3.0	8.6	3.0
22	155	235	81	47	3.4	4.2	.97	148	1.1	2.9	7.9	3.1
23	3.6	235	81	77	3.4	3.9	.91	113	1.2	2.6	6.7	4.2
24	3.6	235	46	108	27	3.7	.86	72	1.2	2.5	6.1	4.1
25	3.6	235	14	104	47	3.3	.79	31	1.2	2.5	5.6	4.1
26	3.6	230	14	104	47	5.0	.86	31	1.2	2.3	5.2	4.1
27	3.6	230	14	73	47	5.0	1.2	30	1.3	3.0	5.2	4.1
28	230	230	14	52	47	4.5	1.3	30	1.7	2.6	5.6	4.5
29	155	148	14	49	------	4.1	1.4	64	2.8	2.9	38	4.5
30	3.6	228	14	48	------	4.0	1.1	83	123	3.0	59	4.1
31	3.6	------	14	48	------	4.0	------	83	------	3.0	31	------
TOTAL	1,445.5	3,663.2	2,982.7	1,540.5	1,316.3	317.0	425.09	1,721.32	477.95	1,006.5	455.4	223.6
MEAN	46.6	122	96.2	49.7	47.0	10.2	14.2	55.5	15.9	32.5	14.7	7.45
MAX	287	246	228	150	133	47	200	148	123	272	107	17
MIN	1.3	3.6	4.9	2.2	3.4	3.3	.79	.75	.68	2.3	2.9	3.0

CAL YR 1972 TOTAL 18,974.60 MEAN 51.8 MAX 334 MIN 1.1
WTR YR 1973 TOTAL 15,575.06 MEAN 42.7 MAX 287 MIN .68

NOTE.--No gage-height record Oct. 16 to Nov. 27.

01185500 West Branch Farmington River near New Boston, Mass.

LOCATION.--Lat 42°04'45", long 73°04'24", Berkshire County, on left bank 5 ft (1.5 m) downstream from highway bridge, 0.3 mi (0.5 km) downstream from Clam River, 1 mi (1.6 km) south of New Boston, and at mile 65.0 (kilometre 104.6).

DRAINAGE AREA.--92.0 mi² (238.3 km²).

PERIOD OF RECORD.--May 1913 to current year. Prior to October 1948, published as Farmington River near New Boston.

GAGE.--Water-stage recorder. Datum of gage is 758.21 ft (231.102 m) above mean sea level.

AVERAGE DISCHARGE.--60 years, 179 ft³/s (5.069 m³/s), 26.42 in/yr (671 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,830 ft³/s (51.8 m³/s) Feb. 3 (gage height, 6.26 ft or 1.908 m); maximum gage height, 6.54 ft (1.993 m) Feb. 3 (ice jam); minimum daily discharge, 19 ft³/s (0.54 m³/s) Oct. 6.

Period of record: Maximum discharge, 34,300 ft³/s (971 m³/s) Aug. 19, 1955 (gage height, 14.06 ft or 4.285 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 2.4 ft³/s (0.068 m³/s) Aug. 20, 21, 1957.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Otis Reservoir 7.0 mi (11.3 km) upstream on Fall River (see p. 215). High flow slightly affected by retarding reservoirs since 1966.

REVISIONS (WATER YEARS).--WSP 641: 1924(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	35	470	926	380	125	297	170	276	695	48	58
2	62	82	449	766	580	130	745	148	232	355	555	53
3	28	156	412	587	1,450	135	609	141	187	192	545	57
4	25	152	392	445	646	243	552	210	165	293	318	52
5	21	131	387	324	620	359	710	216	152	1,230	156	48
6	19	110	617	220	496	368	549	185	137	650	107	54
7	363	92	937	190	424	258	601	122	124	314	81	55
8	535	224	667	175	376	581	536	109	91	213	70	46
9	314	465	807	165	328	568	303	163	80	175	65	43
10	124	270	738	155	257	455	550	231	71	248	58	41
11	102	191	558	150	148	384	501	559	62	219	56	31
12	91	169	321	150	125	524	403	461	70	148	64	31
13	92	136	312	130	135	603	323	373	133	89	79	29
14	85	277	267	122	145	479	265	288	154	67	61	30
15	43	414	239	120	125	407	230	243	122	70	59	53
16	126	362	236	130	120	422	204	375	102	73	98	41
17	126	354	201	140	115	967	190	322	92	64	86	38
18	67	366	232	150	120	980	175	521	81	59	75	38
19	50	347	256	200	130	597	165	528	61	51	71	39
20	42	605	232	540	110	424	154	398	56	45	64	37
21	159	533	212	460	105	328	139	719	53	67	58	34
22	202	443	318	350	105	271	129	541	51	71	54	34
23	38	382	371	850	105	230	122	436	53	55	48	79
24	35	351	265	530	115	260	120	325	50	48	43	65
25	34	334	267	400	135	181	117	232	46	43	43	70
26	32	968	157	330	130	466	139	205	43	43	43	48
27	31	648	194	200	125	385	248	197	43	82	43	41
28	242	672	189	225	125	288	321	211	75	85	58	39
29	219	575	160	205	------	234	270	432	170	67	85	38
30	44	504	155	195	------	207	210	358	948	57	102	38
31	38	------	260	135	------	208	------	329	------	52	80	------
TOTAL	3,446	10,626	11,376	9,708	7,775	11,684	9,945	9,798	3,980	5,920	3,373	1,360
MEAN	111	354	367	313	278	383	332	316	133	191	109	45.3
MAX	535	968	937	926	1,450	980	745	719	948	1,230	555	79
MIN	19	35	155	120	105	125	117	109	43	43	43	29
MEAN†	73.2	300	337	311	283	458	384	316	134	187	110	37.9
CFSM†	.80	3.26	3.66	3.36	3.08	4.98	4.17	3.43	1.46	2.03	1.20	.41
IN.†	.92	3.64	4.23	3.90	3.20	5.74	4.66	3.96	1.63	2.34	1.38	.46

CAL YR 1972 TOTAL 97,826.7 MEAN 267 MAX 987 MIN 9.7 MEAN† 267 CFSM† 2.90 IN† 39.58
WTR YR 1973 TOTAL 89,193.0 MEAN 244 MAX 1,450 MIN 19 MEAN† 244 CFSM† 2.65 IN† 36.05

† Adjusted for change in contents in Otis Reservoir.

Reservoirs in Connecticut River basin

01127850; 01128000. **FIRST CONNECTICUT AND SECOND CONNECTICUT LAKES** on Connecticut River are operated as a unit for storage of water for power and are used for recreation. The downstream order and usable capacity of each are as follows: Second Lake, 12 mi (19 km) northeast of Pittsburg, N.H., 506,000,000 ft^3 (14,300,000 m^3); First Lake, 5.6 mi (9.0 km) northeast of Pittsburg, N.H., 3,330,000,000 ft^3 (94,300,000 m^3). Records furnished by New England Power Co.

01129000. **LAKE FRANCIS** on Connecticut River at Pittsburg, N.H., completed in March 1940, used for storage of water for power and for recreation, has usable capacity of 4,326,000,000 ft^3 (122,500,000 m^3). Records furnished by New Hampshire Water Resources Board.

01132000; 01132500. **MOORE AND COMERFORD RESERVOIRS** on Connecticut River are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Moore Reservoir, 4.5 mi (7.2 km) northwest of Littleton, N.H., filled in April 1956, 4,970,000,000 ft^3 (141,000,000 m^3); Comerford Reservoir, 5 mi (8 km) northeast of Monroe, N.H., completed in 1930, 1,279,000,000 ft^3 (36,220,000 m^3). Records furnished by New England Power Co.

01141000. **UNION VILLAGE RESERVOIR** on Ompompanoosuc River, 0.3 mi (0.5 km) north of Union Village, Vt., completed in 1949 for flood control, has usable capacity of 1,660,000,000 ft^3 (47,000,000 m^3). Records furnished by Corps of Engineers.

01148000; 01150000. **LAKES AND PONDS IN MASCOMA RIVER BASIN** are operated as a unit for storage of water for power and are used for recreation. The reservoirs and usable capacity of each are as follows: 01148000 Goose Pond, 5.2 mi (8.4 km) northeast of Mascoma, N.H., 509,000,000 ft^3 (14,400,000 m^3); Grafton Pond, 8.5 mi (13.7 km) southeast of Mascoma, 144,000,000 ft^3 (4,080,000 m^3); Crystal Lake, 5.8 mi (9.3 km) southeast of Mascoma, 75,000,000 ft^3 (2,100,000 m^3); 01150000 Mascoma Lake at Mascoma, 337,000,000 ft^3(9,540,000 m^3); total usable capacity of the four reservoirs, 1,060,000,000 ft^3 (30,000,000 m^3). Records furnished by New Hampshire Water Resources Board.

01151400. **NORTH HARTLAND RESERVOIR** on Ottauquechee River at North Hartland, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 3,110,000,000 ft^3 (88,100,000 m^3). Records furnished by Corps of Engineers.

01152000. **SUNAPEE LAKE** on Sugar River at Sunapee, N.H., used for recreation and storage of water for power, has usable capacity of 862,000,000 ft^3 (24,400,000 m^3). Records collected by Geological Survey.

01152900. **NORTH SPRINGFIELD RESERVOIR** on Black River at North Springfield, Vt., completed in 1960, used for flood control and recreation, has usable capacity of 2,230,000,000 ft^3 (63,200,000 m^3). Records furnished by Corps of Engineers.

01155400. **BALL MOUNTAIN RESERVOIR** on West River, 2 mi (3.2 km) north of Jamaica, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 2,380,000,000 ft^3 (67,400,000 m^3). Records furnished by Corps of Engineers.

01155900. **TOWNSHEND RESERVOIR** on West River, 1.8 mi (2.9 km) northwest of Townshend, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 1,460,000,000 ft^3 (41,300,000 m^3). Records furnished by Corps of Engineers.

01157500. **SURRY MOUNTAIN LAKE** on Ashuelot River, 4.5 mi (7.2 km) north of Keene, N.H., completed in 1942, used for flood control and recreation, has usable capacity of 1,420,000,000 ft^3 (40,200,000 m^3). Records furnished by Corps of Engineers.

01158550. **OTTER BROOK LAKE** on Otter Brook, 2.5 mi (4.0 km) northeast of Keene, N.H., completed in 1958, used for flood control and recreation, has usable capacity of 798,000,000 ft^3 (22,600,000 m^3). Records furnished by Corps of Engineers.

01163500. **BIRCH HILL RESERVOIR** on Millers River, 1 mi (1.6 km) east of South Royalston, Mass., completed in 1941 for flood control, has usable capacity of 2,180,000,000 ft^3 (61,700,000 m^3). Records furnished by Corps of Engineers.

01164500. **TULLY RESERVOIR** on East Branch Tully River, 3.5 mi (5.6 km) north of Athol, Mass., completed in 1948 for flood control, has usable capacity of 958,000,000 ft^3 (27,100,000 m^3). Records furnished by Corps of Engineers.

01167490; 01168000. **SOMERSET AND HARRIMAN RESERVOIRS** in Deerfield River basin are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Somerset Reservoir on East Branch Deerfield River, 2.5 mi (4.0 km) northeast of Somerset, Vt., completed in 1913, 2,500,000,000 ft^3 (71,000,000 m^3); Harriman Reservoir on Deerfield River at Davis Bridge, Vt., completed in 1924, 5,060,000,000 ft^3 (143,000,000 m^3). Records furnished by New England Power Co.

01172400. **BARRE FALLS RESERVOIR** on Ware River, 4 mi (6 km) east of Barre, Mass., completed in 1958 for flood control, has usable capacity of 1,050,000,000 ft^3 (29,700,000 m^3). Records furnished by Corps of Engineers.

01175000. **QUABBIN RESERVOIR** on Swift River, 3.2 mi (5.1 km) east of Belchertown, Mass., completed in August 1939 for storage of water for municipal supply, has usable capacity of 53,800,000,000 ft^3 (1,520,000,000 m^3). Records furnished by Water Division, Metropolitan District Commission.

01176410. **CONANT BROOK RESERVOIR** in Chicopee River basin, 1.5 mi (2.4 km) southeast of South Monson, Mass., completed in September 1966 for flood control, has usable capacity of 163,000,000 ft^3 (4,620,000 m^3). Records furnished by Corps of Engineers.

01176500. **LUDLOW RESERVOIR** in Chicopee River basin, 3.2 mi (5.1 km) northwest of Three Rivers, Mass., completed in 1875 for storage of water for municipal supply, has usable capacity of 201,000,000 ft^3 (5,690,000 m^3). Records furnished by Board of Water Commissioners, Springfield, Mass.

01179000. **KNIGHTVILLE RESERVOIR** on Westfield River, 4 mi (6 km) north of Huntington, Mass., completed in 1941 for flood control, has usable capacity of 2,130,000,000 ft^3 (60,300,000 m^3). Records furnished by Corps of Engineers.

01180450. **LITTLEVILLE LAKE** on Middle Branch Westfield River, 2 mi (3 km) north of Huntington, Mass., completed in 1965, used for flood control, water supply, and recreation, has usable capacity of 1,410,000,000 ft^3 (39,900,000 m^3). Records furnished by Corps of Engineers.

01181900; 01182500. **BORDEN BROOK AND COBBLE MOUNTAIN RESERVOIRS** in Westfield Little River basin are operated as a unit for storage of water for municipal supply and for hydroelectric power development. The downstream order and usable capacity of each are as follows: Borden Brook Reservoir on Borden Brook, 3.5 mi (5.6 km) south of Blandford, Mass., completed in 1909, 344,000,000 ft^3 (9,740,000 m^3); Cobble Mountain Reservoir on Westfield Little River, 6.5 mi (10.5 km) west of Westfield, Mass., completed in 1931, 3,050,000,000 ft^3 (86,400,000 m^3). Records furnished by Board of Water Commissioners, Springfield, Mass.

01185000. **OTIS RESERVOIR** in Farmington River basin, 3 mi (5 km) southeast of Otis, Mass., completed in 1865, used for storage of water for power and for recreation, has usable capacity of 780,000,000 ft^3 (22,000,000 m^3). Records furnished by Massachusetts Department of Natural Resources, Division of Forests and Parks.

Reservoirs in Connecticut River basin--Continued

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	First and Second Connecticut Lakes	Lake Francis	Moore and Comerford Reservoirs	Union Village Reservoir	Lakes and Ponds in Mascoma River basin	North Hartland Reservoir
Sept. 30, 1972	2,831.7	3,001.9	5,583.0	1.4	838.9	42.3
Oct. 31	2,963.8	3,302.4	5,971.6	1.5	705.3	25.8
Nov. 30	3,166.2	3,528.7	6,059.6	17.0	866.0	30.2
Dec. 31	2,490.5	3,112.4	5,843.4	15.9	684.3	25.8
Jan. 31, 1973	1,711.8	2,477.5	5,255.6	21.4	690.9	30.2
Feb. 28	834.3	1,237.1	3,011.3	15.4	652.8	25.3
Mar. 31	970.7	1,279.6	2,361.8	6.6	907.4	29.7
Apr. 30	2,672.5	2,766.6	4,925.4	6.4	1,185.8	29.7
May 31	3,501.9	3,873.6	5,302.7	6.2	1,107.7	22.9
June 30	3,597.1	4,212.3	5,807.6	319.1	1,224.3	1,103.4
July 31	3,369.9	4,048.0	5,586.9	1.4	1,037.5	23.6
Aug. 31	3,170.9	3,793.6	5,455.3	1.4	973.3	22.5
Sept. 30	2,964.7	3,342.4	5,546.5	1.5	875.0	22.5

	Sunapee Lake	North Springfield Reservoir	Ball Mountain Reservoir	Townshend Reservoir	Surry Mountain Lake	Otter Brook Lake
Sept. 30, 1972	449	23.3	77.5	33.4	58.6	32.3
Oct. 31	384	26.9	.8	39.4	61.0	33.0
Nov. 30	605	25.4	10.0	45.1	101.1	37.6
Dec. 31	326	27.6	13.7	39.7	87.4	37.2
Jan. 31, 1973	377	29.8	12.9	39.4	87.4	40.7
Feb. 28	252	26.2	15.0	38.3	78.2	35.4
Mar. 31	466	28.4	7.5	41.1	80.7	36.2
Apr. 30	593	30.5	91.0	43.3	86.0	22.8
May 31	597	29.1	89.3	39.0	82.0	37.2
June 30	723	810.2	1,021.4	328.2	145.1	85.4
July 31	551	24.7	91.0	35.8	58.6	33.0
Aug. 31	507	23.3	56.5	18.0	57.4	32.3
Sept. 30	384	24.0	82.0	22.0	16.4	32.6

	Birch Hill Reservoir	Tully Reservoir	Somerset and Harriman Reservoirs	Barre Falls Reservoir	Quabbin Reservoir†	Conant Brook Reservoir
Sept. 30, 1972	2.2	40.0	4,531.6	2.2	35,914	0
Oct. 31	2.2	20.0	4,554.7	2.4	34,640	0
Nov. 30	14.2	29.0	5,735.6	3.7	35,512	.1
Dec. 31	5.1	21.0	4,879.1	20.0	37,550	.1
Jan. 31, 1973	11.8	18.0	4,047.0	33.8	39,524	.1
Feb. 28	4.2	19.5	2,938.5	22.9	41,147	.1
Mar. 31	63.0	56.3	4,056.2	3.4	43,898	.1
Apr. 30	44.0	70.5	5,729.5	4.2	46,651	.1
May 31	26.7	54.1	6,151.9	3.7	48,645	.1
June 30	63.0	62.9	6,528.0	3.4	49,173	.3
July 31	3.9	53.0	5,603.1	2.4	48,492	.1
Aug. 31	2.3	47.6	5,233.4	2.2	47,323	.1
Sept. 30	4.5	48.5	4,611.5	2.2	45,693	.1

	Ludlow Reservoir	Knightville Reservoir	Littleville Lake	Borden Brook and Cobble Mountain Reservoirs	Otis Reservoir
Sept. 30, 1972	170.4	0.1	415.9	2,291.8	680.3
Oct. 31	181.1	.3	419.8	2,235.4	578.7
Nov. 30	197.7	1.3	436.7	2,573.9	438.0
Dec. 31	197.7	14.6	426.3	2,654.1	358.2
Jan. 31, 1973	197.7	15.7	427.6	2,625.3	352.0
Feb. 28	194.0	11.8	421.1	2,499.8	364.3
Mar. 31	195.8	96.8	431.5	2,953.4	564.0
Apr. 30	197.7	1.6	432.8	3,153.8	699.5
May 31	195.8	10.1	432.8	3,155.1	699.5
June 30	197.7	59.8	469.6	3,062.6	703.3
July 31	186.6	.2	417.2	2,923.7	691.8
Aug. 31	175.8	.1	417.2	2,530.6	695.7
Sept. 30	174.1	.1	417.2	2,315.6	676.5

† Affected by diversion from Ware River and diversion to Wachusett Reservoir and Chicopee Valley aqueduct.

01197000 East Branch Housatonic River at Coltsville, Mass.

LOCATION.--Lat 42°28'10", long 73°11'49", Berkshire County, on right bank 40 ft (12 m) downstream from Hubbard Avenue Bridge at Coltsville, 1.2 mi (1.9 km) upstream from Unkamet Brook, and 2 mi (3 km) northeast of Pittsfield.

DRAINAGE AREA.--57.1 mi² (147.9 km²).

PERIOD OF RECORD.--March 1936 to current year. Prior to October 1945, published as Housatonic River at Coltsville.

GAGE.--Water-stage recorder. Datum of gage is 993.49 ft (302.816 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 111 ft³/s (3.144 m³/s), 26.40 in/yr (671 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 875 ft³/s (24.8 m³/s) Mar. 18 (gage height, 4.10 ft or 1.250 m); minimum daily, 25 ft³/s (0.71 m³/s) Sept. 30.

Period of record: Maximum discharge, 6,400 ft³/s (181 m³/s) Sept. 21, 1938 (gage height, 10.80 ft or 3.292 m), from rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of computation of peak flow over dam; minimum daily, 4.4 ft³/s (0.12 m³/s) Aug. 15, 1936.

Maximum discharge since at least 1755, that of Sept. 21, 1938.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by powerplants above station and, since 1949, by Cleveland Brook Reservoir (usable capacity, 214,000,000 ft³ or 6,060,000 m³) 5.4 mi (8.7 km) upstream; regulation greater prior to 1955. Diversion above station from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950; see table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 851: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	39	170	609	100	73	157	85	134	369	34	31
2	35	59	147	462	250	79	445	75	95	176	209	28
3	32	152	133	268	700	86	360	86	73	108	263	28
4	30	113	133	195	500	159	270	108	67	139	167	29
5	29	77	128	170	260	203	375	91	68	206	68	29
6	28	70	311	124	210	183	276	76	63	182	54	52
7	128	80	634	87	180	153	247	68	59	120	51	50
8	218	108	350	82	160	202	236	63	55	70	48	37
9	97	328	375	84	140	316	198	79	50	55	50	30
10	48	205	365	87	125	238	312	97	45	51	50	30
11	37	139	305	84	105	201	398	343	42	47	73	30
12	38	136	209	87	90	309	253	294	45	44	66	29
13	45	125	193	105	110	438	201	188	84	42	68	29
14	40	147	188	126	105	465	166	139	81	56	54	31
15	40	167	150	128	94	440	145	120	57	46	103	36
16	45	141	134	129	84	421	139	236	46	44	164	34
17	44	123	110	134	80	595	128	202	42	38	120	32
18	46	111	119	150	100	767	113	254	42	35	82	38
19	45	101	125	182	80	465	105	339	44	32	68	39
20	43	202	123	360	75	268	87	204	42	30	63	35
21	41	211	115	280	70	196	77	310	41	34	55	33
22	35	155	157	230	66	160	71	339	45	39	60	32
23	37	104	180	500	63	144	74	228	46	33	61	38
24	37	90	155	400	60	134	75	157	44	30	49	37
25	36	88	133	270	57	130	69	127	44	27	44	36
26	30	270	129	210	54	276	91	111	44	27	37	35
27	29	410	120	170	52	294	151	106	39	34	35	33
28	29	253	111	140	68	191	172	103	40	47	49	30
29	41	247	95	120	------	150	137	156	96	40	52	27
30	51	196	92	110	------	137	104	150	455	46	42	25
31	44	------	167	105	------	148	------	152	------	36	37	------
TOTAL	1,514	4,647	5,856	6,188	4,038	8,101	5,632	5,086	2,128	2,283	2,376	1,003
MEAN	48.8	155	189	200	144	261	188	164	70.9	73.6	76.6	33.4
MAX	218	410	634	609	700	767	445	343	455	369	263	52
MIN	28	39	92	82	52	73	69	63	39	27	34	25
(†)	8.68	13.1	11.6	12.0	14.4	12.2	9.04	12.7	14.4	14.1	17.9	14.0

CAL YR 1972 TOTAL 58,257 MEAN 159 MAX 1,600 MIN 27 MEAN‡ 171 CFSM‡ 2.99 IN‡ 40.84
WTR YR 1973 TOTAL 48,852 MEAN 134 MAX 767 MIN 25 MEAN‡ 147 CFSM‡ 2.57 IN‡ 34.87

PEAK DISCHARGE (BASE, 1,150 ft³/s).--No peak above base.

† Diversion, in cubic feet per second, from Cleveland Brook Reservoir for municipal supply of Pittsfield; records furnished by city of Pittsfield.

‡ Adjusted for diversion.

NOTE.--No gage-height record Jan. 20 to Feb. 27.

01197300 Marsh Brook at Lenox, Mass.

LOCATION.--Lat 42°20'59", long 73°17'56", Berkshire County, on left bank 15 ft (5 m) downstream from culvert on Hawthorne Street and 1.0 mi (1.6 km) southwest of Lenox.

DRAINAGE AREA.--2.19 mi² (5.67 km²).

PERIOD OF RECORD.--December 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 990 ft (302 m) from topographic map.

AVERAGE DISCHARGE.-10 years (1963-73), 4.79 ft³/s (0.136 m³/s), 29.70 in/yr (754 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 150 ft³/s (4.25 m³/s) Feb. 3, from rating curve extended above 23 ft³/s (0.65 m³/s); maximum gage height, 5.18 ft (1.579 m) Feb. 3 (backwater from ice); minimum discharge, 0.13 ft³/s (0.004 m³/s) Oct. 5-7.

Period of record: Maximum discharge, about 150 ft³/s (4.25 m³/s) Feb. 3, 1973, from rating curve extended above 23 ft³/s (0.65 m³/s); maximum gage height, 5.18 ft (1.579 m) Feb. 3, 1973 (backwater from ice); no flow at times during 1963, 1964, 1965, 1970, and 1972.

REMARKS.--Records fair. Recording rain gage at station since May 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	3.0	8.6	60	4.5	2.9	12	4.5	4.4	27	1.9	3.1
2	1.3	8.1	7.2	50	10	3.0	18	4.4	3.7	11	10	2.5
3	.70	18	6.7	25	70	5.0	11	5.5	3.0	6.0	25	2.2
4	.18	9.6	6.3	12	35	10	11	5.7	2.6	8.0	11	1.8
5	.12	9.1	6.7	9.0	20	11	17	5.2	2.6	13	4.5	1.3
6	.12	6.7	27	7.0	15	8.8	14	4.5	2.4	10	3.7	1.3
7	9.6	5.6	56	5.5	12	7.9	10	4.2	2.2	7.0	3.2	.97
8	12	9.1	19	4.8	10	12	7.2	4.0	2.0	4.5	2.8	.78
9	5.2	14	44	4.3	9.0	11	6.3	4.3	2.2	3.2	2.6	.78
10	3.0	9.1	27	3.9	8.0	8.6	13	5.8	2.8	2.8	2.5	.84
11	2.2	7.2	14	3.7	6.6	7.5	12	32	3.6	2.6	2.5	.84
12	2.2	8.1	10	3.6	5.2	8.5	8.5	15	5.8	2.4	3.0	.84
13	3.0	6.3	10	3.5	5.8	7.9	6.8	10	5.2	2.2	4.5	.84
14	2.5	13	9.1	3.5	5.6	7.0	6.0	7.7	3.4	2.1	4.0	.97
15	3.0	14	8.1	3.4	5.2	7.5	5.7	7.3	1.9	2.5	13	1.3
16	2.7	9.1	8.3	3.4	4.7	7.7	7.2	13	1.7	2.7	9.0	1.2
17	2.7	7.2	6.8	3.4	4.3	13	7.0	8.6	1.7	2.2	6.5	1.1
18	1.8	6.3	7.3	3.9	4.8	16	5.8	12	1.2	2.0	4.2	1.5
19	1.8	6.7	6.3	6.0	4.6	13	4.7	9.4	1.3	1.8	3.2	2.0
20	1.8	25	5.6	9.0	4.3	11	4.2	7.2	2.8	1.6	2.6	2.8
21	2.0	13	4.9	13	4.1	10	4.7	15	3.3	1.8	2.3	2.4
22	2.2	7.2	24	10	3.9	10	4.2	9.6	3.0	2.2	2.0	2.2
23	5.6	6.7	12	20	3.7	9.8	4.0	6.3	2.6	1.9	2.0	2.4
24	2.7	5.6	8.1	16	3.5	9.2	4.2	5.6	4.4	1.7	2.2	2.4
25	1.8	4.9	6.7	12	3.3	9.0	3.8	4.5	4.4	1.5	2.1	2.3
26	1.6	18	6.3	9.8	3.2	13	4.5	4.5	3.4	1.5	2.0	2.2
27	1.6	14	6.7	8.5	3.1	12	4.8	4.2	3.2	1.9	2.0	2.0
28	1.8	11	6.3	7.4	3.0	11	6.7	4.7	3.1	2.8	2.6	1.9
29	3.9	10	5.6	6.8	------	10	5.4	6.1	3.4	2.3	2.3	1.8
30	4.2	7.6	4.6	5.0	------	10	4.7	5.1	22	2.3	1.8	2.0
31	3.3	------	16	4.7	------	10	------	7.0	------	2.1	3.4	------
TOTAL	87.09	293.2	395.2	338.1	272.4	293.3	234.4	242.7	109.3	136.6	144.4	50.56
MEAN	2.81	9.77	12.7	10.9	9.73	9.46	7.81	7.83	3.64	4.41	4.66	1.69
MAX	12	25	56	60	70	16	18	32	22	27	25	3.1
MIN	.12	3.0	4.6	3.4	3.0	2.9	3.8	4.0	1.2	1.5	1.8	.78
CFSM	1.28	4.46	5.80	4.98	4.44	4.32	3.57	3.58	1.66	2.01	2.13	.77
IN.	1.48	4.98	6.71	5.74	4.63	4.98	3.98	4.12	1.86	2.32	2.45	.86

CAL YR 1972 TOTAL 2,779.59 MEAN 7.59 MAX 56 MIN 0 CFSM 3.47 IN 47.21
WTR YR 1973 TOTAL 2,597.25 MEAN 7.12 MAX 70 MIN .12 CFSM 3.25 IN 44.12

PEAK DISCHARGE (BASE, 45 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1915	3.42	128				
1-1	-	-	†70				
2-3	-	-	†150				
5-11	0100	3.35	45				

† About.

NOTE.--No gage-height record July 1 to Aug. 15.

01197500 Housatonic River near Great Barrington, Mass.

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mi (0.8 km) upstream from Williams River and 2 mi (3 km) north of Great Barrington.

DRAINAGE AREA.--280 mi² (725 km²).

PERIOD OF RECORD.--May 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft (208.191 m) above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--60 years, 515 ft³/s (14.58 m³/s), 24.98 in/yr (634 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,560 ft³/s (101 m³/s) Feb. 3 (gage height, 7.45 ft or 2.271 m); minimum daily, 138 ft³/s (3.91 m³/s) Oct. 6.

Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 1, 1949 (gage height, 12.08 ft or 3.682 m), from rating curve extended above 5,300 ft³/s (150 m³/s) on basis of computations of flow over dams at gage heights 11.72 and 12.08 ft (3.572 and 3.682 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Oct. 18, 1914.

REMARKS.--Records good. Regulation at low flow by powerplants above station.

REVISIONS (WATER YEARS).--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	254	976	1,910	638	328	810	545	1,000	1,670	208	222
2	157	239	859	2,440	468	356	1,530	468	868	1,750	645	208
3	152	660	786	2,090	3,010	506	1,790	438	683	1,270	1,590	205
4	149	746	730	1,720	3,160	690	1,660	552	573	913	1,400	190
5	146	559	714	1,420	2,330	1,070	1,880	552	487	1,250	802	199
6	138	444	953	1,130	1,810	994	1,820	487	438	1,180	420	196
7	265	386	2,190	640	1,460	842	1,510	432	404	842	305	232
8	913	415	2,200	610	1,280	1,110	1,290	393	393	580	289	258
9	668	553	2,000	623	1,150	1,600	1,090	404	356	432	254	215
10	377	1,060	1,930	615	1,000	1,500	1,150	474	332	366	229	186
11	258	722	1,680	552	800	1,230	1,440	1,280	301	342	254	180
12	222	615	1,690	506	660	1,150	1,410	1,670	254	323	356	177
13	236	594	1,550	493	740	1,370	1,170	1,400	377	301	426	171
14	229	636	1,390	493	720	1,450	945	1,050	630	280	342	146
15	222	1,020	1,310	505	660	1,410	859	818	474	183	293	160
16	208	842	1,080	506	580	1,460	696	1,070	356	232	730	171
17	205	653	940	506	540	1,650	675	1,170	301	246	746	166
18	219	587	985	526	600	2,250	683	1,210	272	225	513	171
19	250	539	834	534	580	2,220	653	1,460	272	208	398	202
20	236	886	786	1,150	540	1,880	601	1,350	261	202	305	196
21	205	1,210	714	1,290	493	1,560	532	1,440	250	232	265	177
22	199	931	964	976	480	1,260	487	1,590	243	280	243	168
23	199	696	1,200	1,740	456	1,070	462	1,470	269	232	225	186
24	196	580	1,080	1,950	420	958	462	1,220	258	208	215	212
25	199	532	904	1,710	393	904	444	958	265	190	202	202
26	208	770	770	1,270	382	1,130	450	762	265	177	190	186
27	205	1,430	770	1,060	361	1,370	615	675	250	232	193	177
28	212	1,530	738	949	347	1,170	778	630	250	289	272	177
29	232	1,260	645	877	------	940	786	754	265	250	318	183
30	265	1,090	580	640	------	826	660	877	818	232	276	180
31	272	------	786	590	------	802	------	1,010	------	222	232	------
TOTAL	7,805	22,900	34,989	32,182	26,498	37,056	29,330	28,609	12,165	15,339	13,136	5,699
MEAN	252	763	1,129	1,038	946	1,195	979	923	406	495	424	190
MAX	913	1,530	2,200	2,440	3,160	2,250	1,880	1,670	1,000	1,750	1,590	258
MIN	138	254	580	493	347	328	444	393	243	177	190	146
CFSM	.90	2.73	4.03	3.71	3.38	4.27	3.50	3.30	1.45	1.77	1.51	.68
IN.	1.04	3.04	4.65	4.28	3.52	4.92	3.90	3.80	1.62	2.04	1.75	.76

CAL YR 1972 TOTAL 289,432 MEAN 791 MAX 3,560 MIN 125 CFSM 2.83 IN 38.45
WTR YR 1973 TOTAL 265,758 MEAN 728 MAX 3,180 MIN 138 CFSM 2.60 IN 35.31

PEAK DISCHARGE (BASE, 2,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-2	1200	6.02	2,480				
2-3	2130	7.45	3,560				

01329000 Batten Kill at Arlington, Vt.

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, on left bank 5 ft (1.5 m) upstream from bridge on Highway 313 at Arlington and 0.9 mi (1.4 km) downstream from Warm Brook.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 597.68 ft (182.173 m) above mean sea level, unadjusted. Prior to Nov. 18, 1941, nonrecording gage at downstream side of bridge at same datum.

AVERAGE DISCHARGE.--45 years, 330 ft³/s (9.346 m³/s), 29.48 in/yr (749 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,880 ft³/s (167 m³/s) June 30 (gage height, 9.31 ft or 2.838 m); minimum, 69 ft³/s (1.95 m³/s) Sept. 11, 13, 14.

Period of record: Maximum discharge, 11,100 ft³/s (314 m³/s) Mar. 18, 1936 (gage height, 11.3 ft or 3.44 m, from floodmarks, present site), from rating curve extended above 5,200 ft³/s (147 m³/s) on basis of slope-area measurement at gage height 10.8 ft (3.29 m) and computation of peak flow over dam; minimum, 37 ft³/s (1.05 m³/s) Sept. 25, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Prior to 1949, diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	191	465	1,670	535	210	527	361	387	2,610	114	101
2	112	214	414	1,490	600	225	1,140	337	358	1,110	180	89
3	102	981	430	987	1,950	250	937	347	316	535	207	81
4	96	600	380	676	1,510	350	723	403	299	439	148	78
5	95	336	364	636	490	440	915	347	302	632	126	84
6	91	320	1,020	466	632	380	707	344	274	590	114	87
7	555	286	2,670	318	570	330	600	316	258	391	107	100
8	1,470	352	1,570	296	530	1,050	560	287	239	314	121	85
9	635	1,460	1,410	323	474	950	495	309	223	274	114	80
10	236	1,060	1,250	317	352	750	555	309	210	244	112	76
11	221	641	1,020	303	328	600	545	670	194	225	126	73
12	202	583	756	287	296	1,000	455	570	189	207	144	72
13	235	528	781	266	320	1,150	419	495	292	197	148	71
14	209	517	732	263	339	850	395	399	298	207	119	71
15	279	511	583	269	316	750	399	361	218	207	114	78
16	260	415	572	265	296	1,000	459	500	200	202	123	78
17	224	352	444	264	258	2,200	690	435	227	177	112	77
18	197	328	415	325	260	2,400	557	675	201	168	104	94
19	130	306	424	393	268	1,140	873	993	189	157	100	117
20	170	612	405	1,210	263	707	740	756	174	150	95	92
21	164	600	364	811	257	545	585	1,230	164	155	92	84
22	164	405	373	576	255	479	555	1,900	162	155	91	84
23	158	320	360	1,520	242	427	640	1,430	162	142	88	128
24	156	317	338	1,290	228	399	522	873	181	132	85	109
25	151	302	326	813	217	387	431	630	431	128	85	95
26	145	819	320	631	210	536	383	540	221	124	82	89
27	140	1,240	326	542	185	595	391	479	183	150	85	85
28	138	794	305	490	180	475	495	455	174	142	85	81
29	232	647	265	452	------	435	513	545	361	128	84	78
30	302	496	266	309	------	407	419	467	2,740	124	80	76
31	224	------	456	346	------	423	------	435	------	117	81	------
TOTAL	7,724	16,583	19,755	18,764	12,537	21,840	17,985	18,198	9,827	10,533	3,466	2,593
MEAN	249	553	637	605	443	705	600	587	328	340	112	86.4
MAX	1,470	1,460	2,670	1,670	1,950	2,400	1,140	1,900	2,740	2,610	207	128
MIN	91	191	265	263	180	210	383	287	162	117	80	71
CFSM	1.64	3.64	4.19	3.98	2.95	4.64	3.95	3.86	2.16	2.24	.74	.57
IN.	1.89	4.06	4.83	4.59	3.07	5.35	4.40	4.45	2.41	2.58	.85	.63

CAL YR 1972 TOTAL 167,667 MEAN 458 MAX 3,160 MIN 80 CFSM 3.01 IN 41.03
WTR YR 1973 TOTAL 159,765 MEAN 438 MAX 2,740 MIN 71 CFSM 2.88 IN 39.11

PEAK DISCHARGE (BASE, 2,200 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2130	7.45	3,040				
3-17	-	-	†2,900				
6-30	1100	9.31	5,880				

† About.

NOTE.--No gage-height record Feb. 26 to Mar. 18.

01331400 Dry Brook near Adams, Mass.

LOCATION.--Lat 42°35'20", long 73°06'48", Berkshire County, on right bank 20 ft (6 m) upstream from bridge on State Highway 116, just south of junction of Wells Road and State Highway 116, and 2.5 mi (4.0 km) south of Adams.

DRAINAGE AREA.--7.53 mi^2 (19.50 km^2).

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,150 ft (351 m) from topographic map.

AVERAGE DISCHARGE.--10 years (1963-73), 14.9 ft^3/s (0.422 m^3/s), 26.87 in/yr (682 mm/yr).

EXTREMES.--Current year: Maximum discharge, 626 ft^3/s (17.7 m^3/s) Aug. 2 (gage height, 4.79 ft or 1.460 m), from rating curve extended above 250 ft^3/s (7.08 m^3/s) on basis of slope-area measurement at gage height 5.52 ft (1.682 m); minimum, 0.85 ft^3/s (0.024 m^3/s) Oct. 4-7.

Period of record: Maximum discharge, 675 ft^3/s or 19.1 m^3/s (revised) July 19, 1966 (gage height, 5.03 ft or 1.533 m), from rating curve extended above 190 ft^3/s (5.66 m^3/s) on basis of slope-area measurement at gage height 5.52 ft (1.682 m); no flow Sept. 9-11, 15-20, 1964, part of June 28, 1965, Aug. 10, 14-20, 1970.

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in WSP 1902 and WRD Mass., N.H., R.I., Vt., 1963, 1966-72.

Water year	Date	Discharge (ft^3/s)	Gage height (feet)	Water year	Date	Discharge (ft^3/s)	Gage height (feet)
1963	Dec. 6, 1962	340	4.04	1969	Apr. 22, 1969	660	5.0
1966	July 19, 1966	675	5.03	1970	Apr. 24, 1970	345	4.27
1967	June 17, 1967	524	4.72	1971	Aug. 28, 1971	635	4.81
1968	Apr. 25, 1968	458	4.57	1972	May 3, 1972	534	4.56

REMARKS.--Records good except those for winter period, which are fair, and those for period of no gage-height record, which are poor. Recording rain gage at station since May 1963 (no winter records).

REVISIONS.--The figures of peak discharge for water years 1966-72 have been revised as shown in the following table. They supersede figures published in WRD Mass., N.H., R.I., Vt., 1966-72.

REVISED PEAK DISCHARGE.--1966: Mar. 24 (2345) 176 ft^3/s (3.71 ft); July 10 (1845) 228 ft^3/s (3.91 ft); July 19 (1645) 675 ft^3/s (5.03 ft); Sept. 4 (1445) 169 ft^3/s (3.68 ft).

1967: Nov. 3 (1045) 143 ft^3/s (3.56 ft); Apr. 3 (1400) 267 ft^3/s (4.04 ft); June 17 (1930) 524 ft^3/s (4.72 ft).

1968: Mar. 23 (1915) 331 ft^3/s (4.23 ft); Apr. 25 (0130) 458 ft^3/s (4.57 ft).

1969: Nov. 29 (0430) 430 ft^3/s (4.50 ft); Dec. 4 (2145) 345 ft^3/s (4.27 ft); Apr. 10 (2015) 390 ft^3/s (4.40 ft); Apr. 19, about 290 ft^3/s; Apr. 22, about 660 ft^3/s (about 5.0 ft); July 29 (0515) 479 ft^3/s (4.62 ft).

1970: Nov. 8 (0600) about 310 ft^3/s; Apr. 2 (1845) 324 ft^3/s (4.21 ft); Apr. 24 (1700) 345 ft^3/s (4.27 ft).

1971: July 1 (1630) 280 ft^3/s (3.85 ft); Aug. 28 (1045) 635 ft^3/s (4.81 ft).

1972: Apr. 20 (1230) 413 ft^3/s (4.25 ft); May 3 (2130) 534 ft^3/s (4.56 ft); June 1 (0600) 413 ft^3/s (4.25 ft); June 9 (0645) 324 ft^3/s (3.99 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.0	16	159	13	5.6	36	17	18	34	2.6	2.1
2	1.2	7.9	14	59	70	6.5	78	15	20	17	116	2.0
3	1.1	19	13	34	150	9.0	41	16	13	12	26	1.9
4	.91	9.9	12	26	52	15	58	22	10	36	11	1.8
5	.85	7.6	13	21	31	27	50	19	9.5	28	6.6	1.7
6	.85	7.6	124	15	24	21	40	19	8.0	20	4.6	4.4
7	31	7.3	84	12	23	20	41	16	7.0	12	3.6	3.4
8	15	26	54	11	19	69	38	15	6.4	9.1	3.2	2.4
9	5.0	55	78	12	17	50	29	17	5.8	7.4	3.2	2.0
10	3.0	19	53	13	13	37	62	20	5.4	6.9	8.9	1.9
11	2.3	13	36	12	12	30	40	50	5.0	6.3	17	1.7
12	3.0	15	27	11	11	63	29	45	70	6.0	12	1.7
13	3.8	12	29	10	12	67	24	32	80	5.5	9.1	1.5
14	3.0	14	24	9.5	13	43	21	25	40	5.2	6.0	1.6
15	2.6	14	21	9.2	13	40	19	22	23	6.0	8.7	2.0
16	2.7	12	17	8.8	10	54	17	35	15	5.8	14	1.9
17	2.4	9.9	14	8.5	8.2	184	16	25	11	5.5	8.4	1.7
18	2.3	8.5	16	12	8.0	89	15	55	9.0	4.8	6.3	2.1
19	2.1	7.9	17	30	10	39	14	45	7.0	4.0	5.0	2.0
20	2.0	35	13	76	9.5	29	13	30	6.0	3.6	4.4	1.7
21	2.0	19	14	36	8.8	24	13	70	5.5	5.3	4.2	1.7
22	1.8	12	16	34	8.2	21	12	60	6.0	5.0	3.8	1.6
23	1.8	11	15	86	7.4	19	13	35	6.3	3.8	3.4	2.7
24	1.9	9.5	14	49	6.8	18	13	25	11	3.3	3.0	3.0
25	2.0	8.5	13	28	6.2	18	12	20	11	3.0	2.7	4.0
26	2.0	69	13	23	5.8	63	14	17	7.4	2.8	2.6	2.5
27	1.9	38	13	20	5.6	37	22	15	6.0	4.0	2.5	2.0
28	2.0	28	12	17	5.6	25	25	15	8.4	3.4	3.4	1.9
29	4.3	26	11	17	------	21	23	30	16	3.0	3.3	1.8
30	5.0	17	10	15	------	20	19	23	130	2.8	2.6	1.7
31	3.5	------	31	14	------	23	------	28	------	2.6	2.4	------
TOTAL	114.71	541.6	837	888.0	573.1	1,187.1	847	875	576.7	274.1	310.5	64.4
MEAN	3.70	18.1	27.0	28.6	20.5	38.3	28.2	28.2	19.2	8.84	10.0	2.15
MAX	31	69	124	159	150	184	78	70	130	36	116	4.4
MIN	.85	3.0	10	8.5	5.6	5.6	12	15	5.0	2.6	2.4	1.5
CFSM	.49	2.40	3.59	3.80	2.72	5.09	3.75	3.75	2.55	1.17	1.33	.29
IN.	.57	2.68	4.13	4.39	2.83	5.86	4.18	4.32	2.85	1.35	1.53	.32

CAL YR 1972 TOTAL 8,899.06 MEAN 24.3 MAX 242 MIN .80 CFSM 3.23 IN 43.96
WTR YR 1973 TOTAL 7,089.21 MEAN 19.4 MAX 184 MIN .85 CFSM 2.58 IN 35.02

PEAK DISCHARGE (BASE, 300 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1645	4.66	574	3-17	1500	4.24	409
1-1	0700	3.99	324	6-30	0815	4.13	371
2-3	0030	4.32	438	8-2	1015	4.79	626

NOTE.--No gage-height record Apr. 16 to June 20.

01331500 Hoosic River at Adams, Mass.

LOCATION.--Lat 42°36'37", long 73°07'32", Berkshire County, on right bank at Adams, just downstream from Dry Brook and 0.5 mi (0.8 km) upstream from Pecks Brook.

DRAINAGE AREA.--46.3 mi² (119.9 km²).

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 836.01 ft (254.816 m) above mean sea level; prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--42 years, 89.6 ft³/s (2.537 m³/s) 26.28 in/yr (668 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 1,240 ft³/s (35.1 m³/s) Feb. 3 (gage height, 3.43 ft or 1.045 m), from rating curve extended above 410 ft³/s (11.6 m³/s); minimum, 20 ft³/s (0.57 m³/s) Oct. 5, 27, 28; minimum daily, 20 ft³/s (0.57 m³/s) Oct. 27.

Period of record: Maximum discharge, 5,080 ft³/s (144 m³/s) Sept. 21, 1938 (gage height, 9.25 ft or 2.819 m, present datum), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of computation of peak flow over dam; minimum daily, 8.0 ft³/s (0.227 m³/s) Aug. 31, Sept. 1, 1968.

REVISIONS.--Figures of maximum discharge for the water years 1971 and 1972 have been revised to 798 ft³/s (22.6 m³/s) Aug. 28, 1971 (gage height, 3.22 ft or 0.981 m); maximum gage height, 3.41 ft (1.039 m) Aug. 28, 1971; and 1,200 ft³/s (34.0 m³/s) May 3, 1972 (gage height, 3.44 ft or 1.049 m), superseding figures published in WRD Mass., N.H., R.I., Vt., 1971 and 1972.

REMARKS.--Records fair. Diversion above station for municipal supply of Adams. See table below for figures of diversion. Some diurnal fluctuation by mill above station prior to 1961. Flow regulated by Cheshire Reservoir 5.1 mi (8.2 km) upstream.

REVISIONS (WATER YEARS).--Revised figures of discharge, in cubic feet per second, for high-water periods in water years 1971 and 1972, superseding figures published in WRD Mass., N.H., R.I., Vt., 1971 and 1972 are given herewith:

Date 1971	Discharge	Date 1971	Discharge
Aug. 28	400	Aug. 30	90
29	251	31	58

	Total	Mean	Maximum	Minimum	(†)	Mean‡	Cfsm‡	In‡
August 1971	1,583	51.1	400	18	3.67	-	-	-
WTR YR 1971	23,525	64.5	400	18	-	67.7	1.46	19.85
CAL YR 1971	26,318	72.1	400	18	-	75.3	1.63	22.08

Revised peak discharge.--1972: Apr. 20 (1200) 1,080 cfs (3.30 ft); May 3 (2200) 1,200 cfs (3.44 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	28	93	400	125	75	228	95	160	203	35	33
2	22	45	86	218	238	83	320	93	142	137	332	31
3	21	91	85	168	666	97	232	95	135	128	212	30
4	21	65	83	171	228	142	218	110	123	101	114	29
5	21	72	78	160	163	155	269	101	102	112	95	28
6	21	69	222	142	168	99	215	97	93	114	80	36
7	75	68	344	125	174	89	203	91	91	101	64	37
8	110	86	150	120	165	232	206	86	89	91	59	30
9	60	174	225	115	152	218	188	85	86	86	54	28
10	53	104	206	101	130	165	245	93	81	80	50	27
11	50	85	179	91	99	147	276	222	77	75	65	27
12	51	88	150	72	95	206	238	200	77	71	67	26
13	56	80	191	67	95	259	230	155	110	65	62	25
14	53	89	171	67	93	255	152	145	108	62	51	25
15	51	95	152	67	93	235	115	135	101	61	54	27
16	50	81	135	67	91	276	117	165	91	61	68	27
17	48	75	135	67	88	545	117	147	88	60	56	26
18	47	72	120	67	86	485	117	179	83	59	50	28
19	48	69	114	85	83	309	114	165	81	57	46	30
20	47	114	83	259	83	252	112	145	78	55	43	31
21	44	128	69	105	83	191	108	218	74	54	41	28
22	34	102	72	112	81	179	104	232	71	54	40	28
23	30	89	81	360	80	179	102	171	69	53	38	34
24	22	85	71	245	77	212	97	150	68	51	37	31
25	22	83	68	191	75	209	93	142	67	50	36	32
26	22	145	68	174	74	290	93	110	65	44	34	30
27	20	163	77	163	72	248	102	97	61	41	34	30
28	21	117	77	157	72	179	110	93	60	38	36	29
29	28	110	71	152	------	174	112	155	61	37	37	27
30	29	101	71	140	------	218	102	145	348	36	34	26
31	28	------	95	135	------	222	------	157	------	35	33	------
TOTAL	1,229	2,773	3,822	4,563	3,729	6,625	4,915	4,274	2,940	2,272	2,057	876
MEAN	39.6	92.4	123	147	133	214	164	138	98.0	73.3	66.4	29.2
MAX	110	174	344	400	666	545	320	232	348	203	332	37
MIN	20	28	68	67	72	75	93	85	60	35	33	25
(†)	3.26	3.28	2.95	2.95	2.71	2.57	2.83	2.86	3.18	3.39	3.46	3.21

CAL YR 1972 TOTAL 42,438 MEAN 116 MAX 770 MIN 19 MEAN‡ 119 CFSM‡ 2.57 IN‡ 35.04
WTR YR 1973 TOTAL 40,075 MEAN 110 MAX 666 MIN 20 MEAN‡ 113 CFSM‡ 2.44 IN‡ 33.10

PEAK DISCHARGE (BASE, 900 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0100	3.43	1,240				
3-17	1945	2.77	940				

† Diversion, in cubic feet per second, for municipal supply of Adams; record furnished by Adams Fire District.

‡ Adjusted for diversion.

01332000 North Branch Hoosic River at North Adams, Mass.

LOCATION.--Lat 42°42'08", long 73°05'37", Berkshire County, on left bank at North Adams, 0.4 mi (0.6 km) downstream from Hudson Brook, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--39.0 mi² (101.0 km²).

PERIOD OF RECORD.--June 1931 to current year.

GAGE.--Water-stage recorder. Concrete control at present site. Datum of gage is 820.46 ft (250.076 m) above mean sea level. Prior to Sept. 23, 1938, at site 100 ft (30 m) upstream at same datum. July 9, 1959, to July 29, 1960, nonrecording gage at site 500 ft (150 m) upstream at datum about 4.6 ft (1.40 m) lower.

AVERAGE DISCHARGE.--42 years, 94.2 ft³/s (2.668 m³/s), 32.80 in/yr (833 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,930 ft³/s (111 m³/s) June 30 (gage height, 10.15 ft or 3.094 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of computation of flow over dam at gage height 10.28 ft (3.133 m); minimum, 8.7 ft³/s (0.25 m³/s) Sept. 13, 14; minimum daily, 9.2 ft³/s (0.26 m³/s) Sept. 9-14.

Period of record: Maximum discharge, 8,950 ft³/s (253 m³/s) Sept. 21, 1938 (gage height, 12.05 ft or 3.673 m, from floodmarks), by computation of peak flow over dam; minimum, 1.7 ft³/s (0.048 m³/s) July 30, 1965; minimum daily, 3.1 ft³/s (0.088 m³/s) July 30, 1965.

Flood in November 1927 reached a discharge of 9,980 ft³/s (283 m³/s), by computation of flow over dam.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Infrequent diurnal fluctuation at low flow by mill above station; more frequent fluctuation prior to 1948.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1933(M). WSP 801: 1928(M). Revised figures of daily discharge, in cubic feet per second, for high-water period in water year 1971, superseding figures published in WRD Mass., N.H., R.I., Vt., 1971 are given below:

Date	Discharge
Aug. 28, 1971	460
Aug. 29, 1971	160

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
August 1971.............	1,431.1	460	8.3	46.2	1.18	1.37
WTR YR 1971..........	30,695.5	680	8.3	84.1	2.16	29.28
CAL YR 1971..........	31,399.5	680	8.3	86.0	2.21	29.95

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	28	105	512	40	36	185	89	101	506	12	35
2	15	50	92	280	500	43	574	83	89	205	290	15
3	12	120	88	163	1,180	59	310	95	74	132	143	14
4	12	80	85	140	351	96	330	115	65	140	63	12
5	11	95	85	121	209	140	346	93	78	280	39	10
6	11	77	240	87	149	120	230	91	91	153	27	11
7	169	60	401	70	132	108	217	79	78	105	21	12
8	145	90	180	66	118	530	209	72	65	82	18	10
9	54	160	237	76	96	408	160	96	56	65	16	9.2
10	40	120	225	90	93	281	244	92	51	54	15	9.2
11	35	90	189	72	74	211	188	344	40	59	19	9.2
12	36	100	133	65	70	503	134	207	646	47	20	9.2
13	46	85	159	62	80	543	116	166	700	39	16	9.2
14	38	120	132	66	80	335	109	126	352	35	14	9.2
15	41	140	133	57	78	257	116	110	170	33	30	11
16	36	95	96	54	54	357	144	178	118	35	61	11
17	33	76	80	52	50	1,140	174	126	104	29	33	11
18	30	70	70	70	50	652	160	377	86	27	22	17
19	28	66	130	130	60	285	136	308	80	21	17	20
20	25	160	76	524	58	197	114	193	67	19	15	13
21	25	100	85	197	52	149	100	476	58	22	14	11
22	25	92	96	178	48	129	91	442	55	24	13	10
23	25	72	89	813	45	113	88	230	54	17	13	19
24	24	66	76	351	42	108	81	163	65	15	12	17
25	23	64	72	201	38	110	73	129	108	14	11	23
26	22	220	70	156	35	261	81	110	65	13	11	16
27	21	210	68	132	34	213	95	98	53	21	11	13
28	21	150	65	121	36	160	135	98	53	20	12	12
29	40	140	54	110	------	137	141	149	85	14	14	11
30	33	110	58	90	------	126	104	118	1,610	13	11	10
31	30	------	116	82	------	149	------	134	------	12	10	------
TOTAL	1,126	3,106	3,785	5,142	3,883	7,950	5,185	5,187	5,317	2,251	1,023	399.2
MEAN	36.3	104	122	166	139	256	173	167	177	72.6	33.0	13.3
MAX	169	220	401	813	1,180	1,140	574	476	1,610	506	290	35
MIN	11	28	54	52	34	36	73	72	40	12	10	9.2
CFSM	.93	2.67	3.13	4.26	3.56	6.56	4.44	4.28	4.54	1.86	.85	.34
IN.	1.07	2.96	3.61	4.90	3.70	7.58	4.95	4.95	5.07	2.15	.98	.38

CAL YR 1972 TOTAL 44,551.2 MEAN 122 MAX 1,390 MIN 7.3 CFSM 3.13 IN 42.49
WTR YR 1973 TOTAL 44,354.2 MEAN 122 MAX 1,610 MIN 9.2 CFSM 3.13 IN 42.31

PEAK DISCHARGE (BASE, 1,300 ft³/s)

NOTE.--No gage-height record Oct. 8 to Dec. 3.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0030	9.10	2,350	6-12	2045	9.86	3,470
3-17	1730	9.32	2,660	6-30	1145	10.15	3,930

01332500 Hoosic River near Williamstown, Mass.

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, on left bank 1.0 mi (1.6 km) upstream from Green River and 1.2 mi (1.9 km) east of Williamstown.

DRAINAGE AREA.--132 mi^2 (342 km^2).

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 267 ft^3/s (7.561 m^3/s), 27.47 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,570 ft^3/s (186 m^3/s) June 30 (gage height, 8.84 ft or 2.694 m), from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of slope-area measurement at gage height 9.22 ft (2.810 m); minimum not determined; minimum daily, 62 ft^3/s (1.76 m^3/s) Sept. 14.

Period of record: Maximum discharge, 13,000 ft^3/s (368 m^3/s) Dec. 31, 1948 (gage height, 14.85 ft or 4.526 m), from rating curve extended above 4,300 ft^3/s (122 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft^3/s (0.16 m^3/s) Aug. 30, 31, Oct. 26, 1940; minimum daily, 25 ft^3/s (0.71 m^3/s) Sept. 2, 1968.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Slight diurnal fluctuation at low flow prior to 1966 caused by mills above station. Some regulation by Cheshire Reservoir 17 mi (27 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	94	351	1,300	326	164	532	254	378	980	115	110
2	67	167	303	800	980	190	1,050	246	334	514	850	90
3	67	435	290	540	3,170	250	676	270	286	382	613	84
4	67	261	274	480	914	342	757	318	262	394	258	78
5	67	233	270	430	613	464	840	266	250	626	179	74
6	67	221	707	360	509	358	626	258	266	394	157	86
7	435	209	1,230	290	482	298	577	231	254	290	150	90
8	449	342	545	270	451	892	563	212	223	235	143	74
9	193	867	743	275	394	835	473	262	190	205	136	68
10	137	431	694	270	326	608	676	270	175	175	132	66
11	120	316	595	245	286	577	626	739	153	171	160	66
12	127	351	446	220	270	1,030	487	554	887	157	153	64
13	160	294	541	210	270	800	428	442	969	143	146	63
14	134	408	464	205	270	608	366	362	577	143	136	62
15	127	386	394	200	266	649	338	334	350	146	139	70
16	120	294	370	195	246	855	358	496	270	150	205	70
17	117	257	318	205	190	2,400	382	382	239	143	157	68
18	110	241	310	274	205	980	366	770	208	139	136	84
19	106	221	310	334	208	667	342	676	205	132	129	90
20	106	593	278	1,100	208	527	306	487	179	129	120	78
21	103	458	246	500	212	442	274	980	164	132	115	72
22	91	325	298	469	216	394	258	947	161	132	110	70
23	87	261	302	1,680	201	370	250	604	161	125	105	96
24	81	261	262	855	190	374	239	478	175	120	100	90
25	81	245	250	586	179	390	220	406	250	115	95	96
26	81	755	245	496	175	716	239	338	168	115	90	86
27	81	680	255	442	164	541	290	310	153	110	90	78
28	81	471	230	415	161	424	358	318	157	115	96	74
29	110	494	290	374	-------	390	362	491	227	115	100	70
30	127	360	300	338	-------	410	294	410	2,800	110	90	66
31	103	-------	450	330	-------	442	-------	442	-------	105	86	-------
TOTAL	3,871	10,931	12,561	14,688	12,082	18,387	13,553	13,553	11,071	6,942	5,299	2,333
MEAN	125	364	405	474	432	593	452	437	369	224	171	77.8
MAX	449	867	1,230	1,680	3,170	2,400	1,050	980	2,800	980	850	110
MIN	67	94	230	195	161	164	220	212	153	105	86	62
CFSM	.95	2.76	3.07	3.59	3.27	4.49	3.42	3.31	2.80	1.70	1.30	.59
IN.	1.09	3.08	3.54	4.14	3.40	5.18	3.82	3.82	3.12	1.96	1.49	.66

CAL YR 1972 TOTAL 137,667 MEAN 376 MAX 3,290 MIN 67 CFSM 2.85 IN 38.80
WTR YR 1973 TOTAL 125,271 MEAN 343 MAX 3,170 MIN 62 CFSM 2.60 IN 35.30

PEAK DISCHARGE (BASE, 2,400 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0345	8.03	5,300				
3-17	0745	7.13	4,050				
6-12	2130	7.49	4,530				
6-30	1230	8.84	6,570				

NOTE.--No gage-height record Dec. 26 to Jan. 16, Aug. 20 to Sept. 30. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01333000 Green River at Williamstown, Mass.

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, on left bank 0.1 mi (0.2 km) upstream from bridge on State Highway 2 at Williamstown and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--42.6 mi² (110.3 km²).

PERIOD OF RECORD.--September 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m) from topographic map.

AVERAGE DISCHARGE.--24 years, 78.8 ft³/s (2.232 m³/s), 25.12 in/yr (638 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) Feb. 2 (gage height, 4.67 ft or 1.423 m), from rating curve extended as explained below; minimum, 7.8 ft³/s (0.221 m³/s) Oct. 5-7.

Period of record: Maximum discharge, 2,730 ft³/s (77.3 m³/s) June 15, 1969 (gage height, 4.94 ft or 1.506 m), from rating curve extended above 750 ft³/s (21.2 m³/s) on basis of slope-area measurement at gage height 4.94 ft (1.506 m); maximum gage height, 5.94 ft (1.811 m) Sept. 12, 1960; minimum discharge, 3.1 ft³/s (0.088 m³/s) Sept. 20, 22, 24, 25, 1964.

Flood of Dec. 31, 1948, reached a stage of about 7.5 ft (2.3 m), from floodmarks.

REMARKS.--Records good. Slight diurnal fluctuation at times caused by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	21	163	794	73	43	126	53	96	407	17	14
2	9.9	43	133	372	600	70	240	51	87	229	117	12
3	9.6	104	129	248	918	76	190	58	75	171	61	11
4	9.3	64	117	210	346	128	362	58	69	166	37	10
5	8.1	69	108	181	240	108	367	53	70	200	28	9.7
6	7.8	56	642	126	167	89	248	52	72	147	24	12
7	166	52	485	89	163	67	203	47	78	117	22	13
8	111	102	292	76	149	407	181	45	61	98	20	10
9	43	233	362	79	125	261	160	53	54	82	19	9.7
10	39	139	311	81	98	200	316	51	48	71	19	9.4
11	26	115	244	77	86	174	207	163	43	64	24	9.1
12	27	113	197	73	73	210	168	126	261	57	24	8.9
13	35	95	203	70	67	187	152	113	248	52	21	8.6
14	29	163	171	67	96	160	133	98	168	50	18	8.9
15	29	137	147	65	81	155	119	93	128	50	26	10
16	26	165	137	63	69	158	111	126	108	45	30	9.7
17	24	89	98	61	54	455	104	102	93	39	21	9.1
18	22	81	113	70	55	372	130	130	84	37	19	12
19	22	72	111	79	66	244	91	119	76	33	17	12
20	20	225	100	253	63	193	82	117	66	30	16	9.7
21	19	137	91	117	57	166	76	282	61	36	15	9.1
22	19	111	139	103	54	147	72	335	59	32	14	9.1
23	19	91	123	481	48	128	70	218	55	27	14	13
24	13	66	111	253	46	117	66	171	62	24	13	12
25	18	75	104	190	39	111	61	152	64	22	12	12
26	17	424	102	163	30	174	61	130	49	21	12	10
27	16	292	106	144	33	142	59	121	45	28	12	9.7
28	15	244	83	130	41	123	70	117	45	22	18	9.4
29	25	218	74	117	------	117	63	137	66	20	17	8.9
30	24	171	73	91	------	111	58	113	920	19	13	8.6
31	22	------	214	73	------	111	------	111	------	18	12	------
TOTAL	875.7	3,934	5,467	5,056	3,965	5,224	4,316	3,597	3,431	2,414	732	310.6
MEAN	28.2	131	177	163	142	169	144	116	114	77.9	23.6	10.4
MAX	166	424	642	794	918	455	367	335	920	407	117	14
MIN	7.8	21	73	61	30	43	58	45	43	18	12	8.6
CFSM	.66	3.08	4.15	3.83	3.33	3.97	3.38	2.72	2.68	1.83	.55	.24
IN.	.76	3.44	4.79	4.42	3.46	4.56	3.77	3.14	3.00	2.11	.64	.27

CAL YR 1972 TOTAL 44,986.0 MEAN 123 MAX 642 MIN 3.0 CFSM 2.89 IN 39.28
WTR YR 1973 TOTAL 39,342.3 MEAN 108 MAX 920 MIN 7.8 CFSM 2.54 IN 34.36

PEAK DISCHARGE (BASE, 850 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1815	4.47	1,980	3-17	1715	3.87	1,210
1-1	0730	4.11	1,480	4-4	2000	3.69	1,010
1-22	2245	3.65	970	6-12	1945	4.03	1,390
2-2	2245	4.67	2,280	6-30	1330	4.43	1,920
3-8	0945	3.55	875				

01334000 Walloomsac River near North Bennington, Vt.

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, on left bank 0.6 mi (1.0 km) downstream from Paran Creek and 1.4 mi (2.3 km) south of North Bennington.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--June 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 525 ft (160 m) from topographic map.

AVERAGE DISCHARGE.--42 years, 214 ft³/s (6.060 m³/s), 26.18 in/yr (665 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,540 ft³/s (214 m³/s) June 30 (gage height, 11.28 ft or 3.438 m), from rating curve extended as explained below; minimum, 43 ft³/s (1.22 m³/s) Sept. 13, 14; minimum daily, 45 ft³/s (1.27 m³/s) Sept. 13, 14, 30.

Period of record: Maximum discharge, 8,450 ft³/s (239 m³/s) Sept. 21, 1938 (gage height, 12.04 ft or 3.670 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of contracted-opening measurements at gage heights 10.13, 10.49, 11.50, and 12.04 ft (3.088, 3.197, 3.505 and 3.670 m) and slope-area measurement and computation of flow over dam at gage height 12.04 ft (3.670 m); minimum, 4 ft³/s (0.11 m³/s) Sept. 27, 1932; minimum daily, 21 ft³/s (0.59 m³/s) Sept. 22, 23, 1964, July 12, 1965.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow caused by mills above station; diurnal fluctuation greater prior to 1960. Diversion above station for municipal supply of Bennington and North Bennington since 1961. See table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 781: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	104	304	1,020	220	130	352	220	237	1,180	70	130
2	59	180	270	633	495	150	797	210	213	532	352	76
3	54	523	259	415	1,660	193	561	223	190	369	304	61
4	52	274	248	369	714	252	571	281	177	352	155	54
5	51	234	237	344	486	296	759	237	174	556	109	51
6	49	203	802	274	385	244	513	234	193	381	91	51
7	432	186	1,130	195	352	216	454	210	180	281	82	59
8	472	285	537	195	332	692	437	190	170	227	78	52
9	213	602	622	200	300	649	377	216	144	196	76	49
10	135	348	556	205	241	450	490	216	135	170	74	48
11	112	270	490	200	216	369	428	602	119	158	82	46
12	114	296	381	190	200	559	344	437	174	147	102	46
13	150	259	415	180	210	775	308	369	528	138	80	45
14	122	324	381	174	200	542	289	296	381	135	72	45
15	138	332	320	180	220	463	289	270	223	135	74	48
16	122	262	296	170	203	612	316	415	174	135	93	48
17	112	223	255	167	180	1,220	381	324	170	119	82	48
18	102	206	259	196	185	1,170	415	481	150	112	70	54
19	98	190	252	234	185	571	381	638	144	102	64	64
20	91	454	241	907	180	437	328	459	127	95	61	52
21	88	369	223	424	180	365	293	824	117	102	58	48
22	88	262	274	360	177	324	277	1,120	114	104	56	48
23	88	206	262	1,190	164	293	281	633	119	91	56	63
24	88	203	237	654	152	274	262	468	112	82	54	61
25	84	190	223	437	135	270	234	389	125	78	52	59
26	82	659	227	365	138	490	220	336	112	78	51	54
27	78	617	248	324	125	454	227	300	100	130	54	49
28	82	415	216	304	125	356	266	289	100	102	70	48
29	161	389	177	280	------	320	315	316	281	86	64	46
30	150	316	174	230	------	300	252	277	3,210	82	54	45
31	114	------	304	220	------	320	------	270	------	74	70	------
TOTAL	3,857	9,381	10,820	11,236	8,360	13,856	11,417	11,750	8,393	6,529	2,810	1,648
MEAN	124	313	349	362	299	447	381	379	280	211	90.6	54.9
MAX	472	659	1,130	1,190	1,660	1,220	797	1,120	3,210	1,180	352	130
MIN	49	104	174	167	125	130	220	190	100	74	51	45
CFSM	1.12	2.82	3.14	3.26	2.69	4.03	3.43	3.41	2.52	1.90	.82	.49
IN.	1.29	3.14	3.63	3.77	2.80	4.64	3.83	3.94	2.81	2.19	.94	.55
(†)	3.06	4.00	4.93	4.96	4.90	4.76	5.25	4.58	3.94	4.56	3.87	3.53

CAL YR 1972 TOTAL 102,546 MEAN 280 MAX 1,940 MIN 42 CFSM 2.52 IN 34.37 (†) 4.01
WTR YR 1973 TOTAL 100,057 MEAN 274 MAX 3,210 MIN 45 CFSM 2.47 IN 33.53 (†) 4.36

PEAK DISCHARGE (BASE, 2,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2230	6.13	2,400	3-17	2115	6.04	2,340
2-3	0430	5.77	2,140	6-30	1130	11.28	7,540

† Diversion, in cubic feet per second, for municipal supply of Bennington and North Bennington; records furnished by town of Bennington.

ST. LAWRENCE RIVER BASIN

04280000 Poultney River below Fair Haven, Vt.

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, on right bank 0.3 mi (0.5 km) downstream from Carver Falls, 1.9 mi (3.1 km) upstream from Hubbardton River, and 3.2 mi (5.1 km) northwest of Fair Haven.

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (32 m) from topographic map.

AVERAGE DISCHARGE.--45 years, 235 ft³/s (6.655 m³/s), 17.07 in/yr (434 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,660 ft³/s (132 m³/s) Nov. 9 (gage height, 14.90 ft or 4.542 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Sept. 12.

Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) July 20, 1945 (gage height, 24.36 ft or 7.425 m, from high-water mark in gage well), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of computations of peak flow over dam at gage heights 16.10, 21.40, and 24.36 ft (4.907, 6.523, and 7.425 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 8, 1965.

REMARKS.--Records good. Flow regulated by powerplant above station and by Lake Bomoseen.

REVISIONS (WATER YEARS).--WSP 1114: 1929(M), 1932-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	135	725	1,070	490	123	455	110	358	1,380	12	7.8
2	65	226	647	1,350	530	124	624	104	301	909	67	13
3	15	400	591	870	1,850	155	873	105	263	714	51	15
4	50	422	566	737	1,750	220	749	110	238	548	16	35
5	14	419	514	701	1,110	418	1,170	105	230	758	31	13
6	55	418	560	573	814	480	1,140	110	162	470	73	13
7	233	365	1,700	440	722	462	892	122	150	327	11	13
8	739	422	1,140	410	555	963	758	117	152	213	54	15
9	350	2,840	952	430	528	1,440	646	129	93	175	7.8	15
10	249	2,370	914	430	565	991	593	147	107	149	61	15
11	134	1,040	909	410	560	838	724	190	94	137	10	46
12	191	886	785	380	520	791	585	252	78	106	58	5.2
13	176	745	753	390	500	837	513	283	201	109	77	5.6
14	175	639	763	370	480	791	522	242	245	112	36	5.9
15	160	599	732	320	444	591	433	221	157	86	53	6.3
16	150	530	667	280	359	687	400	319	127	90	49	10
17	152	477	593	256	320	928	353	333	139	80	8.2	48
18	117	474	587	240	290	1,930	271	256	193	75	19	7.8
19	123	449	596	243	250	1,360	256	298	101	62	25	8.2
20	103	656	562	1,520	235	1,130	240	330	94	54	65	52
21	104	853	519	1,420	190	1,010	210	766	91	29	7.4	5.9
22	106	633	490	1,150	171	913	201	1,520	81	53	44	49
23	104	548	480	2,030	157	822	201	1,130	62	75	5.6	62
24	102	513	470	2,110	143	701	198	878	78	53	7.0	96
25	93	476	460	1,340	135	629	175	715	91	71	13	64
26	74	793	450	1,010	133	526	147	573	79	65	17	7.0
27	82	1,690	430	801	132	787	151	470	60	7.9	52	41
28	73	1,050	441	705	131	688	151	460	65	42	7.0	5.6
29	98	932	403	531	------	537	149	480	58	48	43	7.0
30	191	814	389	520	------	554	134	440	341	69	5.6	15
31	139	------	447	500	------	493	------	295	------	23	6.6	------
TOTAL	4,523	22,909	20,235	23,737	14,344	23,204	13,994	11,608	4,556	7,089.8	992.2	703.3
MEAN	146	764	653	766	512	749	466	374	152	229	32.0	23.4
MAX	739	2,840	1,700	2,110	1,850	1,930	1,170	1,520	358	1,380	77	96
MIN	14	135	389	240	131	123	134	104	58	7.9	5.6	5.2
CFSM	.78	4.09	3.49	4.10	2.74	4.01	2.49	2.00	.81	1.22	.17	.13
IN.	.90	4.56	4.03	4.72	2.85	4.62	2.78	2.31	.91	1.41	.20	.14

CAL YR 1972 TOTAL 145,713.0 MEAN 398 MAX 2,840 MIN 14 CFSM 2.13 IN 28.99
WTR YR 1973 TOTAL 147,785.3 MEAN 405 MAX 2,840 MIN 5.2 CFSM 2.17 IN 29.40

PEAK DISCHARGE (BASE, 2,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1745	14.90	4,660				
1-23	2215	12.01	2,890				

04280300 Mettawee River tributary near Pawlet, Vt.

LOCATION.--Lat 43°19'43", long 73°10'23", Rutland County, on left bank 20 ft (6 m) downstream from culvert on State Highway 30, 400 ft (100 m) upstream from mouth, and 1.2 mi (1.9 km) south of Pawlet.

DRAINAGE AREA.--2.95 mi² (7.64 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 3.23 ft³/s (0.091 m³/s), 14.87 in/yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 130 ft³/s (3.7 m³/s) Feb. 3; maximum gage height, 4.76 ft (1.451 m) Feb. 3 (ice jam); minimum discharge, 0.12 ft³/s (0.003 m³/s) July 25-27.

Period of record: Maximum discharge, 266 ft³/s (7.53 m³/s) July 21, 1967 (gage height, 4.82 ft or 1.469 m), from rating curve extended above 19 ft³/s (0.54 m³/s) on basis of measurement of peak flow through culvert; no flow July 25-28, July 31 to Aug. 7, 1964, July 27, 28, Aug. 4, 1965.

REMARKS.--Records poor. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	4.3	8.2	30	4.4	1.6	4.9	1.3	4.9	14	.55	.55
2	.34	6.7	7.1	16	12	1.6	6.4	1.2	5.4	7.2	.62	.44
3	.39	9.9	7.4	11	40	4.1	6.1	1.2	4.3	4.4	.63	.39
4	.39	7.4	6.7	9.5	12	4.0	7.6	1.3	3.7	16	.55	.49
5	.34	7.1	6.4	9.0	9.0	2.9	9.9	1.6	3.4	12	.55	.55
6	.30	7.4	28	7.0	7.2	2.5	7.8	2.3	2.7	8.3	.49	.63
7	11	7.4	21	5.0	6.4	2.5	6.7	2.0	2.7	5.5	.49	.44
8	8.2	9.0	9.9	4.2	6.7	9.9	6.4	1.8	2.1	3.9	.43	.34
9	5.1	16	11	4.0	6.2	7.4	5.7	1.8	2.1	2.9	.44	.30
10	4.3	15	14	3.9	5.5	6.1	7.4	2.5	1.6	2.0	.38	.44
11	3.7	14	14	3.8	5.1	5.1	7.1	4.3	1.3	1.6	.39	.49
12	3.7	14	9.9	3.7	4.9	5.1	6.1	4.6	2.2	1.0	.43	.39
13	4.6	12	11	3.6	4.6	5.1	5.1	3.7	2.1	.80	.44	.30
14	3.7	13	7.8	3.2	4.4	5.1	4.9	3.4	1.5	1.8	.44	.39
15	4.6	12	5.7	3.2	4.1	4.9	4.6	4.0	1.0	.62	.44	.49
16	4.0	12	5.7	2.7	4.1	5.1	4.3	5.7	1.2	.55	.44	.30
17	4.6	12	4.9	3.2	3.6	8.6	4.0	4.0	1.3	.38	.44	.21
18	4.6	11	4.4	3.7	3.2	10	3.7	4.9	.91	.30	.44	.71
19	4.6	9.9	3.9	3.2	3.4	8.2	3.2	6.1	.80	.23	.44	.55
20	4.6	16	3.7	9.5	2.7	7.4	2.9	6.1	.55	.20	.44	.27
21	4.3	14	3.7	4.6	2.5	6.4	2.9	17	.49	.20	.38	.18
22	4.3	14	4.3	5.1	2.5	6.4	2.9	16	.49	.18	.39	.49
23	4.3	12	3.7	30	2.3	5.7	2.9	11	.43	.16	.39	.63
24	3.7	12	3.7	9.9	2.2	5.4	2.5	9.0	.34	.14	.39	.34
25	2.7	11	3.7	7.9	2.2	5.4	2.1	7.8	.43	.12	.44	.27
26	2.5	22	3.7	6.7	1.8	6.7	2.0	7.4	.30	.12	.49	.30
27	2.0	15	4.0	6.4	1.6	6.4	2.0	6.7	.27	1.5	.49	.27
28	2.3	12	3.4	6.1	1.6	5.7	1.8	6.7	.23	.70	.44	.21
29	6.1	9.5	2.9	5.5	------	5.4	1.8	6.4	.63	.62	.39	.27
30	6.1	8.2	2.7	4.9	------	4.9	1.5	5.7	14	.62	.39	.30
31	5.1	------	7.4	4.4	------	4.6	------	5.1	------	.55	.49	------
TOTAL	116.85	345.8	233.9	230.9	166.2	170.2	137.2	162.6	63.37	88.59	14.15	11.93
MEAN	3.77	11.5	7.55	7.45	5.94	5.49	4.57	5.25	2.11	2.86	.46	.40
MAX	11	22	28	30	40	10	9.9	17	14	16	.63	.71
MIN	.30	4.3	2.7	2.7	1.6	1.6	1.5	1.2	.23	.12	.38	.18
CFSM	1.28	3.90	2.56	2.53	2.01	1.86	1.55	1.78	.72	.97	.16	.14
IN.	1.47	4.36	2.95	2.91	2.10	2.15	1.73	2.05	.80	1.12	.18	.15

CAL YR 1972 TOTAL 2,295.64 MEAN 6.27 MAX 28 MIN .07 CFSM 2.13 IN 28.95
WTR YR 1973 TOTAL 1,741.69 MEAN 4.77 MAX 40 MIN .12 CFSM 1.62 IN 21.96

PEAK DISCHARGE (BASE, 40 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	0945	4.17	40	2-3	-	-	†130
12-6	1630	4.71	112	6-30	0830	3.75	40
1-1	0930	3.58	54	7-4	1345	4.30	116
1-23	0345	3.91	100				

† About.

04281500 East Creek at Rutland, Vt.

LOCATION.--Lat 43°37'43", long 72°59'22", Rutland County, on left bank on grounds of Rutland Country Club, at Rutland, 280 ft (85 m) downstream from Grove Street Bridge and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--51.1 mi² (132.3 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 570 ft (174 m) from topographic map.

AVERAGE DISCHARGE.--33 years, 97.4 ft³/s (2.758 m³/s), 25.88 in/yr (657 mm/yr), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 2,590 ft³/s (73.3 m³/s) June 30 (gage height, 5.88 ft or 1.792 m), from rating curve extended above 490 ft³/s (13.9 m³/s) on basis of computation of flow over dam and slope-area measurement at gage height 7.10 ft (2.164 m); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 26.

Period of record: Maximum discharge, 36,500 ft³/s (1,030 m³/s) June 3, 1947 (gage height, 20.3 ft or 6.19 m, from high-water mark in gage house), mean of two slope-area measurements, caused by failure of East Pittsford Dam, 5.8 mi (9.3 km) upstream; minimum daily, 3.1 ft³/s (0.088 m³/s) Nov. 8, 1947.

REMARKS.--Records good. Diversion above station from Mendon Brook for municipal supply of Rutland. Flow regulated by powerplants and by Chittenden Reservoir 11 mi (17.7 km) upstream (usable capacity, 819,800,000 ft³ or 23,220,000 m³); prior to June 3, 1947, also regulated by East Pittsford Reservoir (usable capacity, 150,000,000 ft³ or 4,250,000 m³). See table below for figures of diversion and monthend contents in Chittenden Reservoir.

REVISIONS (WATER YEARS).--WSP 1307: 1941-42(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	52	220	333	185	162	104	190	207	517	23	122
2	99	38	207	231	317	167	384	194	210	305	71	32
3	87	148	104	181	453	177	300	203	187	246	46	25
4	99	71	158	168	212	160	274	221	192	304	32	21
5	94	69	203	142	200	226	333	204	185	315	25	19
6	71	87	489	56	215	198	282	214	179	259	24	49
7	278	52	391	38	216	221	166	197	145	225	55	67
8	196	186	274	100	213	617	153	184	164	121	29	27
9	65	617	304	130	194	357	179	191	144	81	24	21
10	89	210	156	129	184	153	264	200	29	63	21	19
11	54	142	203	126	124	112	248	270	102	61	60	16
12	52	136	229	115	165	336	224	256	144	51	63	14
13	65	122	267	53	183	374	218	252	170	55	36	14
14	34	117	241	54	180	285	141	216	126	97	29	14
15	49	94	218	100	186	259	105	214	116	53	46	19
16	57	87	138	122	181	277	177	342	69	61	35	21
17	33	61	70	121	171	470	278	246	105	53	27	18
18	31	65	152	141	115	389	259	243	108	33	22	83
19	30	63	210	110	170	292	241	341	120	35	20	33
20	24	199	206	283	176	263	227	283	167	31	19	16
21	29	117	198	143	175	243	112	716	165	38	17	17
22	28	78	197	235	171	235	98	475	162	43	15	21
23	30	63	84	559	173	224	173	318	48	36	14	61
24	40	141	64	248	164	220	197	272	58	22	14	29
25	29	187	64	249	119	127	157	242	216	22	13	21
26	30	317	98	240	162	291	199	130	167	21	12	18
27	26	307	189	124	161	274	201	94	161	35	20	15
28	27	250	190	88	156	235	216	107	164	35	23	14
29	89	241	160	176	------	226	218	223	233	30	22	14
30	101	220	55	189	------	219	202	225	1,030	35	18	14
31	40	------	120	183	------	215	------	210	------	25	61	------
TOTAL	2,005	4,537	5,859	5,167	5,321	8,004	6,330	7,673	5,273	3,308	936	872
MEAN	64.7	151	189	167	190	258	211	248	176	107	30.2	29.1
MAX	278	617	489	559	453	617	384	716	1,030	517	71	122
MIN	24	38	55	38	115	112	98	94	29	21	12	14
(†)	6.34	6.33	6.54	6.61	6.04	6.15	5.87	5.84	6.44	6.77	6.79	6.31
(‡)	488.0	622.2	517.8	525.4	328.0	301.4	272.9	169.0	0	0	0	0
MEAN††	91.0	209	157	176	114	254	206	215	117	113	37.0	35.4
CFSM††	1.78	4.09	3.07	3.44	2.23	4.97	4.03	4.21	2.29	2.21	.72	.69
IN.††	2.05	4.57	3.53	3.97	2.33	5.74	4.50	4.84	2.56	2.56	.83	.77

CAL YR 1972 TOTAL 45,749 MEAN 125 MAX 702 MIN 17 MEAN†† 132 CFSM†† 2.58 IN†† 35.09
WTR YR 1973 TOTAL 55,285 MEAN 151 MAX 1,030 MIN 12 MEAN†† 144 CFSM†† 2.82 IN†† 38.27

† Diversion, in cubic feet per second, from Mendon Brook for municipal supply of Rutland; records furnished by city of Rutland.
‡ Monthend contents, in millions of cubic feet, in Chittenden Reservoir; records furnished by Central Vermont Public Service Corp.
†† Adjusted for diversion and change in contents in Chittenden Reservoir.

04282000 Otter Creek at Center Rutland, Vt.

LOCATION.--Lat 43°36'13", long 73°00'49", Rutland County, on right bank 500 ft (150 m) upstream from bridge on U.S. Highway 4 at Center Rutland, 200 ft (60 m) downstream from dam, 1.2 mi (1.9 km) downstream from East Creek, and 1.5 mi (2.4 km) west of Rutland.

DRAINAGE AREA.--307 mi^2 (795 km^2).

PERIOD OF RECORD.--May 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 474.80 ft (144.719 m) above mean sea level; prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher. Prior to July 22, 1929, nonrecording gage at same site.

AVERAGE DISCHARGE.--45 years, 535 ft^3/s (15.15 m^3/s), 23.67 in/yr (601 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 ft^3/s (297 m^3/s) June 30 (gage height, 13.25 ft or 4.039 m), from rating curve extended above 5,700 ft^3/s (161 m^3/s) on basis of computation of peak flow over dam; minimum daily, 92 ft^3/s (2.61 m^3/s) Sept. 13.
Period of record: Maximum discharge, 13,700 ft^3/s (388 m^3/s) Sept. 22, 1938 (gage height, 13.45 ft or 4.100 m, present datum), from rating curve extended above 7,400 ft^3/s (210 m^3/s) on basis of computation of peak flow over dam; minimum daily, 45 ft^3/s (1.27 m^3/s) Sept. 21, 1947, Aug. 7, 1965.

REMARKS.--Records good. Flow regulated by powerplants and Chittenden Reservoir 14 mi (22.5 km) upstream on East Creek (usable capacity, 819,800,000 ft^3 or 23,220,000 m^3); prior to June 3, 1947, also regulated by East Pittsford Reservoir (usable capacity, 150,000,000 ft^3 or 4,250,000 m^3). See table with station 04281500 for monthend contents in Chittenden Reservoir.

REVISIONS (WATER YEARS).--WSP 1084: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	321	896	457	600	367	957	631	803	6,960	175	265
2	160	319	820	1,600	735	393	1,820	603	735	3,640	249	155
3	140	710	695	1,110	2,000	412	2,200	602	650	1,790	349	128
4	172	585	716	868	2,220	465	1,560	661	622	1,390	272	114
5	160	495	649	805	1,740	511	1,740	609	630	1,920	212	108
6	140	480	1,430	550	1,000	682	1,480	629	575	1,450	188	134
7	500	452	3,380	500	926	671	1,200	596	510	970	257	178
8	1,500	459	2,550	470	863	1,440	1,160	535	498	714	202	136
9	930	600	1,070	450	796	2,150	1,030	538	460	561	174	122
10	620	2,500	1,510	466	576	1,590	1,040	566	306	484	161	110
11	493	1,900	1,230	480	526	1,050	1,040	971	344	447	234	102
12	350	1,300	1,060	469	493	1,110	868	1,060	524	391	301	97
13	328	1,000	1,040	393	535	1,300	835	1,030	864	365	299	92
14	275	800	1,160	361	529	1,500	731	795	564	425	221	96
15	359	717	954	420	562	1,360	715	707	454	414	215	100
16	389	641	672	457	546	1,350	839	1,130	423	377	252	105
17	305	553	576	442	474	1,960	1,150	950	709	325	222	105
18	264	530	543	496	411	4,220	1,200	845	539	273	190	170
19	238	464	741	626	479	2,940	1,200	1,440	473	254	169	220
20	215	543	743	1,340	486	1,630	1,120	1,280	471	234	153	180
21	202	1,040	667	1,400	476	1,120	856	2,580	437	227	143	160
22	202	694	667	1,080	456	988	831	4,080	424	235	130	140
23	204	509	565	2,130	452	866	961	3,280	311	217	120	130
24	223	581	538	2,310	438	814	855	2,030	295	198	115	190
25	209	612	512	1,640	368	727	700	1,290	627	181	110	160
26	200	1,260	495	1,160	340	874	664	950	458	171	105	140
27	193	2,050	622	885	388	1,200	654	801	468	228	105	125
28	162	1,690	591	762	375	901	735	741	390	307	100	120
29	309	1,260	525	715	------	899	829	956	534	232	139	110
30	527	459	375	596	------	839	705	875	5,620	214	125	105
31	388	------	436	600	------	844	------	838	------	188	132	------
TOTAL	10,450	26,565	29,726	26,112	19,842	37,287	31,525	34,599	20,659	25,767	5,809	4,097
MEAN	337	886	959	842	709	1,203	1,050	1,116	689	831	187	137
MAX	1,500	2,500	3,380	2,310	2,220	4,220	2,200	4,080	5,620	6,960	349	265
MIN	110	319	375	361	340	387	654	535	295	171	100	92
CFSM	1.10	2.89	3.12	2.74	2.31	3.92	3.42	3.64	2.24	2.71	.61	.45
IN.	1.27	3.22	3.60	3.16	2.40	4.52	3.82	4.19	2.50	3.12	.70	.50

CAL YR 1972 TOTAL 252,948 MEAN 691 MAX 5,110 MIN 110 CFSM 2.25 IN 30.65
WTR YR 1973 TOTAL 272,423 MEAN 746 MAX 6,960 MIN 92 CFSM 2.43 IN 33.01

PEAK DISCHARGE (BASE, 3,400 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	2345	7.99	3,730				
3-18	1315	8.93	4,550				
5-22	1330	8.72	4,360				
6-30	1830	13.25	10,500				

04282500 Otter Creek at Middlebury, Vt.

LOCATION.--Lat 44°00'47", long 73°10'06", Addison County, on right bank 150 ft (46 m) upstream from highway bridge in Middlebury, and 3.5 mi (5.6 km) downstream from Middlebury River.

DRAINAGE AREA.--628 mi² (1,627 km²).

PERIOD OF RECORD.--April 1903 to April 1907, October 1910 to January 1920, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.75 ft (102.337 m) above mean sea level. Apr. 1, 1903, to Apr. 30, 1907, and Oct. 5, 1910, to Jan. 31, 1920, nonrecording gage at site 1,800 ft (550 m) upstream at datum 10 ft (3 m) lower, and Oct. 1, 1928, to Oct. 17, 1933, at present datum.

AVERAGE DISCHARGE.--57 years (1903-6, 1910-19, 1928-73), 958 ft³/s (27.13 m³/s), 20.72 in/yr (526 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,530 ft³/s (100 m³/s) Mar. 22 (gage height, 5.29 ft or 1.612 m); maximum gage height, 5.37 ft (1.637 m) Jan. 9 (backwater from ice); minimum daily discharge, 165 ft³/s (4.67 m³/s) Aug. 27.

Period of record: Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 20, 21, 1936 (gage height, 10.3 ft or 3.14 m); minimum daily, 92 ft³/s (2.61 m³/s) Aug. 9, 1965.

Maximum discharge since at least 1830, 13,600 ft³/s (385 m³/s) Nov. 4, 1927 (gage height, 13.3 ft or 4.05 m, present datum, at site 1,800 ft or 550 m upstream), from rating curve extended above 9,000 ft³/s (255 m³/s).

REMARKS.--Records good. Some regulation by Chittenden Reservoir (usable capacity, 819,800,000 ft³ or 23,220,000 m³) on East Creek; see table with station 04281500 for monthend contents. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 434: 1903-4. WSP 684: 1913(M), drainage area. WSP 1114: 1913. WSP 1207: 1929, 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	782	2,050	1,630	2,100	789	2,130	1,180	2,390	2,230	380	315
2	337	712	2,030	1,990	2,000	775	2,320	1,090	2,270	2,180	375	310
3	365	853	2,000	2,000	2,410	761	2,300	1,050	2,120	2,330	422	278
4	370	1,110	1,910	2,030	2,270	1,020	2,240	1,170	1,950	2,610	472	242
5	385	1,100	1,800	2,040	2,230	1,370	2,400	1,130	1,790	2,930	455	290
6	370	1,050	1,850	2,000	2,270	1,460	2,470	1,100	1,610	3,120	337	319
7	526	1,020	2,260	1,700	2,320	1,580	2,510	1,080	1,420	3,160	390	365
8	1,340	976	2,090	1,400	2,380	2,300	2,540	1,060	1,190	3,140	411	333
9	1,530	1,930	2,090	1,200	2,350	2,580	2,540	1,040	883	3,060	355	290
10	1,520	1,990	2,190	1,050	2,300	2,410	2,530	1,050	761	2,930	328	223
11	1,330	2,010	2,320	950	2,150	2,410	2,490	1,180	628	2,730	422	286
12	1,050	2,070	2,420	860	1,950	2,650	2,410	1,400	699	2,500	444	278
13	810	2,120	2,520	800	1,700	2,840	2,320	1,480	1,130	2,240	472	232
14	719	2,130	2,560	760	1,500	2,750	2,230	1,490	1,260	2,010	455	220
15	604	2,130	2,530	740	1,330	2,700	2,130	1,430	1,060	1,730	405	226
16	616	2,090	2,490	782	1,200	2,730	2,040	1,530	944	1,440	370	210
17	686	1,980	2,450	789	1,050	2,950	1,950	1,560	1,300	1,140	365	170
18	598	1,840	2,400	898	950	3,440	1,880	1,580	1,190	853	385	260
19	538	1,660	2,300	1,180	880	3,320	1,840	1,680	1,070	628	302	460
20	520	1,560	2,250	2,020	883	3,290	1,800	1,790	936	538	253	405
21	472	1,620	2,150	1,950	944	3,410	1,770	2,210	845	544	286	355
22	380	1,640	2,050	1,920	960	3,520	1,730	2,420	747	478	270	337
23	400	1,590	1,900	2,230	944	3,430	1,650	2,340	699	411	249	333
24	449	1,440	1,700	2,290	944	3,340	1,620	2,340	610	460	232	395
25	532	1,300	1,500	2,260	910	3,150	1,560	2,420	640	390	223	427
26	466	1,480	1,330	2,320	840	2,980	1,470	2,520	905	375	188	365
27	427	1,920	1,220	2,410	810	2,790	1,350	2,650	838	390	165	310
28	427	1,910	1,230	2,500	780	2,620	1,240	2,700	673	395	235	290
29	380	2,000	1,200	2,530	------	2,480	1,220	2,670	660	466	282	260
30	598	2,030	1,030	2,400	------	2,350	1,220	2,580	1,820	478	260	216
31	817	------	944	2,250	------	2,230	------	2,490	------	449	253	------
TOTAL	19,913	48,043	60,764	51,879	43,355	76,425	59,900	53,410	35,038	48,335	10,441	9,000
MEAN	642	1,601	1,960	1,674	1,548	2,465	1,997	1,723	1,168	1,559	337	300
MAX	1,530	2,130	2,560	2,530	2,410	3,520	2,540	2,700	2,390	3,160	472	460
MIN	337	712	944	740	780	761	1,220	1,040	610	375	165	170
CFSM	1.02	2.55	3.12	2.67	2.47	3.93	3.18	2.74	1.86	2.48	.54	.48
IN.	1.18	2.85	3.60	3.07	2.57	4.53	3.55	3.16	2.08	2.86	.62	.53

CAL YR 1972 TOTAL 477,832 MEAN 1,306 MAX 5,260 MIN 243 CFSM 2.08 IN 28.30
WTR YR 1973 TOTAL 516,503 MEAN 1,415 MAX 3,520 MIN 165 CFSM 2.25 IN 30.60

04282700 Lewis Creek tributary at Starksboro, Vt.

LOCATION.--Lat 44°12'59", long 73°03'21", Addison County, on right bank 25 ft (8 m) downstream from culvert on State Highway 116, 0.3 mi (0.5 km) upstream from mouth, and 0.7 mi (1.1 km) south of Starksboro.

DRAINAGE AREA.--5.31 mi^2 (13.75 km^2).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 7.22 ft^3/s (0.204 m^3/s), 18.46 in/yr (469 mm/yr).

EXTREMES.--Current year: Maximum discharge, 341 ft^3/s (9.66 m^3/s) Dec. 6 (gage height, 4.37 ft or 1.332 m), from rating curve extended above 97 ft^3/s (2.75 m^3/s); maximum gage height, 4.43 ft (1.350 m) Jan. 20 (backwater from ice); minimum discharge, 0.71 ft^3/s (0.020 m^3/s) Sept. 3.

Period of record: Maximum discharge, 721 ft^3/s (20.4 m^3/s) Sept. 6, 1971 (gage height, 4.81 ft or 1.466 m), from rating curve extended above 97 ft^3/s (2.75 m^3/s); maximum gage height, 5.14 ft (1.567 m) Mar. 4, 1972 (ice jam); minimum discharge, 0.14 ft^3/s (0.004 m^3/s) Sept. 21-25, 27, 1964.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	1.3	14	52	11	8.9	13	10	18	35	1.7	.79
2	.76	1.6	10	32	21	8.3	76	10	19	18	3.1	.79
3	.76	4.3	11	20	68	8.3	40	20	16	16	19	.79
4	.76	3.4	6.5	18	35	14	26	22	16	14	19	1.0
5	.76	3.2	7.3	15	25	15	31	17	15	16	13	.87
6	.76	3.2	110	11	21	14	24	18	15	12	7.3	17
7	5.0	3.2	51	9.0	21	19	20	16	14	9.4	6.3	3.7
8	10	4.0	22	7.5	20	62	19	14	10	7.3	3.7	1.7
9	3.0	37	19	6.5	19	37	17	15	8.9	6.0	2.8	1.5
10	1.7	18	16	6.0	18	18	17	14	6.8	6.0	3.7	1.3
11	1.3	12	13	5.8	17	19	15	26	6.3	7.3	12	1.2
12	1.1	11	11	5.6	16	76	12	22	27	5.3	7.9	1.1
13	1.3	8.9	15	5.4	16	46	12	18	26	5.0	5.7	1.3
14	1.1	7.3	12	5.4	15	21	12	16	19	9.9	4.1	1.4
15	1.4	6.8	8.9	5.4	15	17	13	15	15	6.0	3.4	3.4
16	1.3	5.8	8.2	6.1	15	16	17	19	42	5.0	2.8	2.1
17	1.2	4.0	7.8	6.1	15	84	17	15	37	4.4	2.2	1.9
18	1.1	4.3	7.5	11	14	86	13	14	20	3.4	2.1	12
19	1.0	3.6	7.3	15	14	34	12	22	16	3.1	1.9	8.9
20	.95	5.4	7.2	64	12	22	10	19	12	2.8	1.5	4.7
21	.90	5.0	7.8	36	11	17	9.9	150	34	2.4	1.4	3.1
22	.92	3.2	6.9	28	11	16	12	154	89	2.1	1.3	4.7
23	1.2	3.2	6.9	64	11	14	14	50	58	1.7	1.2	9.4
24	1.5	3.7	7.3	42	10	13	12	26	26	1.4	1.1	5.7
25	1.2	3.6	7.8	32	8.9	13	10	19	19	1.1	1.0	4.7
26	1.2	19	7.8	26	8.9	16	9.4	16	15	1.2	1.0	4.4
27	1.0	25	7.0	23	9.4	13	9.4	13	12	1.2	1.0	3.4
28	.92	18	6.0	20	9.4	12	10	15	9.9	5.4	1.2	2.8
29	1.3	16	5.0	18	------	11	12	21	12	11	.95	2.4
30	2.3	15	5.5	14	------	9.9	11	17	84	3.1	.87	2.1
31	1.4	------	8.0	12	------	9.9	------	20	------	2.2	.79	------
TOTAL	49.93	260.0	440.7	621.8	487.6	770.3	525.7	843	717.9	224.7	135.01	110.14
MEAN	1.61	8.67	14.2	20.1	17.4	24.8	17.5	27.2	23.9	7.25	4.36	3.67
MAX	10	37	110	64	68	86	76	154	89	35	19	17
MIN	.76	1.3	5.0	5.4	8.9	8.3	9.4	10	6.3	1.1	.79	.79
CFSM	.30	1.63	2.67	3.79	3.28	4.67	3.30	5.12	4.50	1.37	.82	.69
IN.	.35	1.82	3.09	4.36	3.42	5.40	3.68	5.91	5.03	1.57	.95	.77

CAL YR 1972 TOTAL 5,008.77 MEAN 13.7 MAX 305 MIN .76 CFSM 2.58 IN 35.09
WTR YR 1973 TOTAL 5,186.78 MEAN 14.2 MAX 154 MIN .76 CFSM 2.67 IN 36.34

PEAK DISCHARGE (BASE, 100 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1845	4.37	341	6-16	1815	4.00	157
3-12	0415	3.95	141	6-22	0300	4.28	284
3-17	1745	4.23	257	6-30	0845	4.10	195
4-2	1330	3.94	137	8-3	2315	3.92	131
5-21	1200	4.23	257	9-6	1400	4.00	157

04284000 Jail Branch at East Barre, Vt.

LOCATION.--Lat 44°09'30", long 72°26'44", Washington County, on right bank 1,400 ft (430 m) upstream from highway bridge, at East Barre, 1,400 ft (430 m) downstream from East Barre Detention Reservoir, and 4.2 mi (6.8 km) upstream from mouth. Prior to Aug. 8, 1972 at site 1,500 ft (460 m) downstream.

DRAINAGE AREA.--38.9 mi² (100.8 km²).

PERIOD OF RECORD.--August 1920 to September 1923, October 1933 to current year. October 1933 monthly discharge only, published in WSP 1307. Prior to October 1922, published as Jail Brook at East Barre.

GAGE.--Water-stage recorder. Datum of gage is 1,107.25 ft (337.490 m) above mean sea level. Aug. 14, 1920, to Sept. 30, 1923, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Nov. 1, 1933, to Jan. 25, 1935, nonrecording gage and Jan. 26, 1935, to Aug. 7, 1972, water-stage recorder at site 1,500 ft (460 m) downstream. Datum of gage was 1,071.59 ft (326.621 m) above mean sea level Nov. 1, 1933, to Sept. 30, 1964, and 1,069.59 ft (326.011 m) above mean sea level Oct 1, 1964, to Aug. 7, 1972 (levels by Corps of Engineers).

AVERAGE DISCHARGE.--43 years, 52.9 ft³/s (1.498 m³/s), 17.78 in/yr (452 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 583 ft³/s (16.5 m³/s) July 1 (gage height, 4.85 ft or 1.478 m); maximum gage height, 9.48 ft (2.890 m) Jan. 7 (ice jam); minimum discharge, 3.0 ft³/s (0.085 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 1,820 ft³/s (51.5 m³/s) Oct. 1, 1920 (gage height, 9.50 ft or 2.896 m, from graph based on gage readings, site and datum then in use), from rating curve extended above 900 ft³/s (25.5 m³/s); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 18, 1950, Aug. 3, 4, 31, Sept. 1, 3, 1953. Maximum discharge since construction of East Barre Detention Reservoir in 1935, 634 ft³/s (18.0 m³/s) Apr. 19, 1969 (gage height, 3.31 ft or 1.009 m, site and datum then in use); maximum gage height, 6.35 ft or 1.935 m (site and datum then in use) Feb. 17, 1939 (ice jam).

REMARKS.--Records good except those for winter period, which are fair. Discharge affected by East Barre Detention Reservoir since 1935 (see p. 235). Prior to 1964, occasional diurnal fluctuation at low flow caused by mill above staton. Diversion from reservoir on Orange Brook, a tributary above station, for city of Barre.

REVISIONS (WATER YEARS).--WSP 564: 1922. WSP 1034: Drainage area. WSP 1307: 1921-23(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	14	52	126	50	33	211	144	165	576	15	7.0
2	5.7	18	49	127	54	33	427	111	177	558	42	5.9
3	4.2	31	48	68	150	32	445	119	101	517	45	5.6
4	3.8	21	50	59	120	32	397	204	106	456	33	5.2
5	3.5	18	60	49	90	54	279	142	212	222	47	4.4
6	3.0	21	95	43	75	53	200	113	112	89	23	15
7	66	23	216	37	70	40	178	93	104	73	19	24
8	112	45	135	33	66	136	176	78	81	62	15	9.6
9	27	288	80	30	62	247	146	96	63	52	11	7.2
10	17	146	68	29	56	143	134	108	55	45	8.6	6.8
11	12	67	65	27	52	97	127	259	50	53	43	5.7
12	10	51	62	25	46	271	113	218	250	46	40	4.8
13	13	44	70	24	48	369	98	149	201	36	21	4.2
14	11	40	66	23	50	221	102	105	211	150	9.3	4.3
15	15	42	60	24	52	138	124	86	89	92	7.7	11
16	15	33	56	26	49	179	183	179	166	57	7.5	11
17	11	31	52	30	45	319	276	130	367	39	7.4	8.2
18	10	32	50	45	40	492	246	88	134	32	7.0	40
19	8.0	32	47	80	41	468	210	99	88	24	6.9	42
20	7.0	83	45	120	43	367	188	114	72	20	6.9	16
21	6.5	73	43	130	44	163	161	297	64	46	5.2	13
22	6.0	45	41	100	44	135	196	454	134	26	5.7	20
23	12	39	40	170	42	120	203	429	80	17	24	57
24	17	36	40	130	41	121	170	248	61	13	9.9	25
25	12	33	41	105	39	125	97	133	62	12	6.9	19
26	10	143	42	90	37	203	76	111	62	11	5.3	14
27	8.5	285	42	74	35	226	74	96	45	22	5.3	11
28	8.5	102	41	66	33	148	142	115	45	141	16	8.9
29	22	81	40	61	------	135	328	164	97	65	15	8.2
30	31	56	39	57	------	135	210	132	424	41	8.8	7.4
31	17	------	40	54	------	164	------	165	------	22	7.3	------
TOTAL	513.2	1,973	1,875	2,062	1,574	5,399	5,917	4,979	3,878	3,615	526.7	421.4
MEAN	16.6	65.8	60.5	66.5	56.2	174	197	161	129	117	17.0	14.0
MAX	112	288	216	170	150	492	445	454	424	576	47	57
MIN	3.0	14	39	23	33	32	74	78	45	11	5.2	4.2
MEAN †	16.7	66.8	60.7	66.5	55.8	178	197	160	181	63.5	16.9	14.0
CFSM †	.43	1.72	1.56	1.71	1.43	4.58	5.06	4.11	4.65	1.63	.43	.36
IN†	.50	1.92	1.80	1.97	1.49	5.28	5.64	4.74	5.18	1.88	.50	.40

CAL YR 1972 TOTAL 21,300.6 MEAN 58.2 MAX 564 MIN 2.5 MEAN† 58.2 CFSM† 1.46 IN† 19.90
WTR YR 1973 TOTAL 32,733.3 MEAN 89.7 MAX 576 MIN 3.0 MEAN† 89.7 CFSM† 2.31 IN† 31.30

† Adjusted for change in contents in East Barre Detention Reservoir.

04285500 North Branch Winooski River at Wrightsville, Vt.

LOCATION.--Lat 44°17'58", long 72°34'45", Washington County, on right bank at Wrightsville, 0.8 mi (1.3 km) downstream from Wrightsville Detention Reservoir and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--69.2 mi² (179.2 km²).

PERIOD OF RECORD.--October 1933 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 550.53 ft (167.802 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 21, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--40 years, 130 ft³/s (3.682 m³/s), 25.51 in/yr (648 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 964 ft³/s (27.3 m³/s) June 30 (gage height, 3.97 ft or 1.210 m); minimum daily, 12 ft³/s (0.34 m³/s) Oct. 6, Aug. 26, 27.

Period of record: Maximum discharge, 2,170 ft³/s (61.5 m³/s) Apr. 12, 1934 (gage height, 6.53 ft or 1.990 m), from rating curve extended above 920 ft³/s (26.1 m³/s); minimum daily, 0.2 ft³/s (0.006 m³/s) Aug. 13, 1941. Maximum discharge since construction of Wrightsville Detention Reservoir in 1935, 1,040 ft³/s (29.5 m³/s) Mar. 21, 1936 (gage height, 4.32 ft or 1.317 m); maximum gage height, 5.43 ft (1.655 m) Mar. 12, 1936 (ice jam).

Maximum discharge since at least 1830, 17,200 ft³/s (487 m³/s) Nov. 3, 1927, by computation of peak flow over dam 0.8 mi (1.3 km) above gage.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Discharge affected since 1935 by Wrightsville Detention Reservoir (see following page). Occasional diurnal fluctuation at low flow caused by small mill above station; more frequent diurnal fluctuation prior to 1968.

REVISIONS (WATER YEARS).--WSP 1237: 1934-39.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	88	153	208	110	49	504	380	267	793	52	22
2	28	78	119	299	130	47	635	350	267	782	57	19
3	19	135	119	201	200	46	665	310	192	760	88	17
4	15	143	97	173	317	46	650	380	186	735	186	17
5	13	114	99	142	225	66	670	350	427	705	81	14
6	12	101	139	130	135	78	650	330	483	670	56	231
7	100	105	350	120	120	68	620	260	459	620	47	386
8	292	166	340	110	110	93	588	200	409	570	43	271
9	112	497	230	100	105	242	550	220	338	512	37	77
10	58	541	172	96	96	196	508	240	167	437	36	51
11	45	509	140	90	92	165	459	310	100	343	74	41
12	40	464	120	86	87	289	391	360	295	106	54	35
13	44	407	120	82	82	440	305	400	374	77	38	30
14	42	341	125	80	78	473	161	380	430	135	31	27
15	48	204	110	76	76	456	179	350	391	132	27	70
16	59	115	95	75	72	446	275	320	412	96	25	74
17	55	86	100	70	68	546	406	340	575	75	22	53
18	65	96	95	95	65	745	483	320	562	64	20	192
19	52	82	90	125	63	740	515	300	522	56	17	374
20	42	99	89	280	58	715	538	270	473	51	20	318
21	36	106	86	360	60	685	526	450	409	54	20	137
22	35	74	84	330	58	640	538	597	412	52	16	122
23	37	64	85	315	57	592	558	615	412	43	15	372
24	62	76	83	374	56	546	542	592	380	38	14	361
25	65	74	84	360	54	501	520	554	412	36	13	291
26	55	175	87	305	52	470	460	508	386	41	12	123
27	46	393	88	174	51	459	400	453	340	58	12	93
28	40	379	85	151	50	437	360	386	213	66	57	78
29	158	337	82	135	------	415	390	369	170	115	75	65
30	210	230	79	130	------	394	410	356	601	106	40	57
31	121	------	82	120	------	427	------	314	------	73	27	------
TOTAL	2.046	6.279	3.827	5.392	2.727	11.512	14.456	11.564	11.064	8.401	1.312	4.018
MEAN	66.0	209	123	174	97.4	371	482	373	369	271	42.3	134
MAX	292	541	350	374	317	745	670	615	601	793	186	386
MIN	12	64	79	70	50	46	161	200	100	36	12	14
MEAN †	66.9	210	123	174	96.6	389	474	365	474	166	42.1	134
CFSM †	.97	3.03	1.78	2.51	1.40	5.62	6.85	5.27	6.85	2.40	.61	1.94
IN†	1.11	3.38	2.05	2.90	1.45	6.49	7.64	6.08	7.65	2.77	.70	2.17

CAL YR 1972 TOTAL 57.495.4 MEAN 157 MAX 914 MIN 7.3 MEAN† 157 CFSM † 2.27 IN† 30.91
WTR YR 1973 TOTAL 82.598.0 MEAN 226 MAX 793 MIN 12 MEAN† 226 CFSM † 3.27 IN† 44.40

† Adjusted for change in contents in Wrightsville Detention Reservoir.
NOTE.--No gage-height record Apr. 25 to May 21.

Reservoirs in Winooski River basin above Montpelier, Vt.

04283500 EAST BARRE DETENTION RESERVOIR.--Lat 44°09'18", long 72°26'42", Washington County, at dam on Jail Branch at East Barre, 4.5 mi (7.2 km) upstream from mouth. Drainage area, 38.8 mi^2 (100.5 km^2). Period of record, February 1936 (in WSP 1307), March and April 1936 (in WSP 798), May 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Aug. 30, 1960, nonrecording gage, and Aug. 30 to Sept. 30, 1960, water-stage recorder, at present site at datum 1,127.9 ft (343.78 m) above mean sea level. Maximum elevation for current year, 1,149.17 ft (350.267 m) July 1. Maximum elevation for period of record, 1,163.9 ft (354.76 m), present datum, Mar. 22, 1936.

Reservoir is formed by earthfill dam completed by Corps of Engineers in 1935 for flood control. Usable capacity of reservoir, 525,000,000 ft^3 (14,900,000 m^3) between elevation 1,124.9 ft or 342.87 m (bottom of outlet opening) and 1,165.0 ft or 355.09 m (crest of spillway). Dam has no gates; below elevation 1,165.0 ft (355.09 m), outflow from reservoir is dependent on capacity of outlet opening near base of dam. Outlet-opening enlargement and reservoir-construction modifications completed in November 1959. Size of opening since enlargement, height, 7 ft (2.1 m) and average width, 3.7 ft (1.13 m). Figures given herein represent usable contents.

04285000 WRIGHTSVILLE DETENTION RESERVOIR.--Lat 44°18'38", long 72°34'31", Washington County, at dam on North Branch Winooski River at Wrightsville, 0.3 mi (0.5 km) downstream from Long Meadow Brook and 4.2 mi (6.8 km) upstream from mouth. Drainage area, 66.5 mi^2 (172.2 km^2). Period of record, November 1935 to February 1936 (in WSP 1307), March to May 1936 (in WSP 798), June 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps or Engineers). Prior to July 28, 1960, nonrecording gage, and July 28 to Sept. 30, 1960, water-stage recorder, at present site at datum 612.75 ft (186.766 km) above mean sea level. Extremes for current year: Maximum elevation, 658.55 ft (200.726 m) July 1; minimum, 620.02 ft (188.982 m) Aug. 25-27. Extremes for period of record: Maximum elevation, 676.4 ft (206.17 m), present datum, Mar. 22, 1936, from graph based on gage readings; minimum observed, 613.0 ft (186.84 m) Aug. 17, 1949, and Aug. 17-19, 1950.

Reservoir is formed by earthfill dam completed by Corps of Engineers in 1935 for flood control; modification of intake-structure works to create a recreational pool completed in June 1965. Usable capacity for recreation, 22,00,000 ft^3 (620,000 m^3) between elevations 612.75 ft or 186.766 (bottom of outlet opening) and 620.00 ft (188.976 m); for flood control, 851,500,000 ft^3 (24,110,000 m^3) between elevations 620.00 ft (188.976 m) and 685.00 ft or 208.788 m (crest of spillway); total usable capacity, 873,500,000 ft^3 (24,740,000 m^3). Dam has no gates; below elevation 685.00 ft (208.788 m), outflow from reservoir is dependent on capacity of outlet opening, 5.25 ft (1.600 m) square near base of dam. Figures given herein represent usable contents.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in contents	
			Millions of cubic feet	Equivalent, cubic feet per second
		04283500 East Barre Detention Reservoir		
Sept. 30	1,127.80	3.0	-	-
Oct. 31	1,128.20	3.4	+0.4	+0.15
Nov. 30	1,130.40	6.1	+2.7	+1.04
Dec. 31	1,130.89	6.7	+.6	+.22
CAL YR 1972	-	-	+1.5	+.05
Jan. 31	1,130.86	6.7	0	0
Feb. 28	1,130.13	5.7	-1.0	-.41
Mar. 31	1,136.30	16.4	+10.7	+3.99
Apr. 30	1,135.70	14.8	-1.6	-.62
May 31	1,134.63	12.5	-2.3	-.86
June 30	1,148.93	145.8	+133.3	+51.4
July 31	1,128.16	3.4	-142.4	-53.2
Aug. 31	1,127.88	3.1	-.3	-.11
Sept. 30	1,127.79	3.0	-.1	-.04
WTR YR 1973	-	-	0	0
		04285000 Wrightsville Detention Reservoir		
Sept. 30	620.32	23.3	-	-
Oct. 31	620.90	25.6	+2.3	+0.86
Nov. 30	621.15	26.6	+1.0	+.39
Dec. 31	620.81	25.2	-1.4	-.52
CAL YR 1972	-	-	+.8	+.03
Jan. 31	620.86	25.8	+.6	+.22
Feb. 28	620.48	23.9	-1.9	-.79
Mar. 31	630.01	72.4	+48.5	+18.1
Apr. 30	626.40	50.9	-21.5	-8.29
May 31	621.82	29.4	-21.5	-8.03
June 30	653.53	303.2	+273.8	+106
July 31	620.32	23.3	-279.9	-105
Aug. 31	620.14	22.6	-.7	-.26
Sept. 30	620.38	23.5	+.9	+.35
WTR YR 1973	-	-	+.2	+.006

04286000 Winooski River at Montpelier, Vt.

LOCATION.--Lat 44°15'23", long 72°35'36", Washington County, on right bank 0.4 mi (0.6 km) upstream from Dog River and 1 mi (1.6 km) downstream from depot at Montpelier.

DRAINAGE AREA.--397 mi² (1,028 km²).

PERIOD OF RECORD.--May 1909 to June 1914 (fragmentary), July 1914 to September 1923, August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 499.99 ft (152.397 m) above mean sea level. Prior to June 16, 1914, nonrecording gage at site 0.9 mi (1.4 km) upstream at different datum. June 16 to July 3, 1914, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--54 years (1914-23, 1928-73), 576 ft³/s (16.31 m³/s), 19.70 in/yr (500 mm/yr), adjusted for storage since October 1935.

EXTREMES.--Current year: Maximum discharge, 13,800 ft³/s (391 m³/s) June 30 (gage height, 17.55 ft or 5.349 m); minimum daily, 85 ft³/s (2.41 m³/s) Oct. 6.

Period of record: Maximum discharge, 17,200 ft³/s (487 m³/s) Apr. 7, 1912, from rating curve extended above 6,900 ft³/s (195 m³/s); maximum gage height, 17.55 ft or 5.349 m June 30, 1973; minimum daily discharge, 17 ft³/s (0.48 m³/s) Sept. 3, 1933.

Maximum discharge since at least 1830, 57,000 ft³/s (1,610 m³/s) Nov. 3, 1927 (gage height, 27.1 ft or 8.26 m), from rating curve extended above 6,900 ft³/s (195 m³/s).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by several small powerplants above station, by Peacham Pond and, since 1926, by Mollys Falls Reservoir (combined usable capacity, 492,000,000 ft³ or 13,900,000 m³), which regulate runoff from 24 mi² (62 km²), and by East Barre and Wrightsville Detention Reservoirs since 1935 (see preceding page). See table below for monthend contents in Peacham Pond and Mollys Falls Reservoir.

REVISIONS (WATER YEARS).--WSP 424: 1915. WSP 894: Drainage area. WSP 1437: 1912-14(M), 1915-18, 1919(M), 1920, 1921(M), 1922-23, 1929, 1933, 1934(M), 1936, 1937(M), 1938, 1946(M). WRD Mass., N.H., R.I., Vt., 1972: 1969(M), 1970(P), 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	294	684	800	600	400	1,870	1,370	1,420	7,980	286	164
2	124	275	610	1,000	700	400	4,250	1,230	1,340	3,860	368	151
3	105	409	540	760	1,450	390	3,310	1,210	1,110	2,950	418	160
4	95	428	440	650	1,350	340	2,640	1,630	1,010	2,590	605	147
5	89	313	480	660	1,050	420	2,780	1,380	1,900	2,360	465	208
6	85	298	717	480	850	530	2,420	1,180	1,580	1,800	317	481
7	321	355	1,500	390	850	450	2,110	1,110	1,370	1,570	355	873
8	1,020	405	800	410	820	800	1,950	919	1,240	1,400	357	510
9	418	2,530	1,200	450	720	1,200	1,770	925	1,090	1,130	316	268
10	254	1,590	770	500	600	1,050	1,590	1,110	866	1,080	307	214
11	201	1,090	660	450	580	900	1,530	1,560	689	1,290	851	233
12	186	846	520	420	500	1,800	1,370	1,730	1,760	818	496	214
13	186	748	700	420	600	2,690	1,230	1,430	1,880	668	326	175
14	181	702	720	410	560	2,070	1,110	1,250	1,700	1,090	276	167
15	178	615	580	400	580	1,660	1,130	1,180	1,360	880	267	243
16	198	485	500	420	540	2,020	1,270	1,610	1,940	679	247	261
17	211	395	470	400	460	3,600	1,680	1,330	2,850	605	211	201
18	207	409	470	410	430	5,540	1,760	1,170	1,730	545	206	409
19	167	317	580	620	450	3,180	1,650	1,190	1,500	470	194	833
20	154	456	600	1,300	470	2,480	1,560	1,220	1,380	404	177	574
21	142	610	560	1,500	470	1,960	1,450	2,860	1,220	445	172	377
22	137	430	550	1,100	470	1,730	1,560	4,070	1,460	364	169	334
23	147	360	520	1,700	460	1,560	1,760	2,720	1,380	330	225	925
24	204	370	500	1,800	450	1,470	1,510	2,100	1,150	301	173	748
25	243	386	520	1,400	430	1,440	1,400	1,760	1,190	261	151	646
26	217	865	530	1,200	420	1,700	1,240	1,560	1,290	264	143	418
27	201	1,710	530	1,000	400	1,770	1,170	1,420	1,120	317	145	326
28	157	1,130	510	900	380	1,460	1,590	1,420	973	771	328	294
29	279	1,040	440	820	------	1,410	2,090	1,560	1,010	560	341	264
30	495	790	430	640	------	1,380	1,740	1,490	8,240	490	234	217
31	368	------	430	660	------	1,530	------	1,430	------	338	180	------
TOTAL	7,103	20,651	19,061	24,070	17,640	49,330	54,490	48,124	48,748	38,610	9,306	11,035
MEAN	229	688	615	776	630	1,591	1,816	1,552	1,625	1,245	300	368
MAX	1,020	2,530	1,500	1,800	1,450	5,540	4,250	4,070	8,240	7,980	851	925
MIN	85	275	430	390	380	340	1,110	919	689	261	143	147
(†)	381.2	355.4	316.0	284.8	105.2	204.6	455.2	398.2	508.9	410.5	398.7	376.5
MEAN‡	227	680	600	765	555	1,651	1,904	1,522	1,825	1,051	295	360
CFSM‡	.57	1.71	1.51	1.93	1.40	4.16	4.80	3.83	4.60	2.65	.74	.91
IN.‡	.66	1.91	1.74	2.22	1.46	4.79	5.35	4.42	5.13	3.05	.86	1.01

CAL YR 1972 TOTAL 248,607 MEAN 679 MAX 7,060 MIN 76 MEAN‡ 679 CFSM‡ 1.71 IN‡ 23.30
WTR YR 1973 TOTAL 348,168 MEAN 954 MAX 8,240 MIN 85 MEAN‡ 954 CFSM‡ 2.40 IN‡ 32.61

PEAK DISCHARGE (BASE, 3,900 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0215	11.92	7,200				
4-2	1600	9.60	4,920				
5-22	0545	9.37	4,710				
6-30	2015	17.55	13,800				

† Monthend contents, in millions of cubic feet, in Peacham Pond and Mollys Falls Reservoir; records furnished by Green Mountain Power Corp.

‡ Adjusted for change in contents in Peacham Pond, Mollys Falls Reservoir, and East Barre and Wrightsville Detention Reservoirs.

04287000 Dog River at Northfield Falls, Vt.

LOCATION.--Lat 44°10'58", long 72°38'27", Washington County, on right bank 1 mi (1.6 km) downstream from Northfield Falls, and 1.2 mi (1.9 km) downstream from Cox Branch.

DRAINAGE AREA.--76.1 mi² (197.1 km²).

PERIOD OF RECORD.--October 1934 to current year. October 1934 monthly discharge only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 603.00 ft (183.794 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--39 years, 119 ft³/s (3.370 m³/s), 21.24 in/yr (539 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft³/s (300 m³/s) June 30 (gage height, 11.57 ft or 3.527 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) as explained below; minimum, 14 ft³/s (0.40 m³/s) Aug. 24.
Period of record: Maximum discharge, 10,600 ft³/s (300 m³/s) June 30, 1973 (gage height, 11.57 ft or 3.527 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of computation of flow over dam at gage height 8.49 ft (2.588 m) and slope-area measurements at gage heights 8.96, 11.53, and 11.57 ft (2.731, 3.514, and 3.527 m); minimum, 4.3 ft³/s (0.12 m³/s) Aug. 31, Sept. 7, 1942.

REMARKS.--Records good except those for winter period, which are fair. Infrequent diurnal fluctuation at low flow by powerplant above station; regulation much greater prior to 1955.

REVISIONS (WATER YEARS).--WSP 1237: 1935-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	43	191	164	140	70	668	207	209	1,170	60	28
2	21	44	145	161	190	68	1,700	189	229	488	68	26
3	20	72	140	125	350	66	839	206	180	343	70	26
4	19	71	120	130	279	70	603	232	167	381	60	24
5	20	66	130	125	212	86	601	192	174	303	54	24
6	20	63	233	97	185	85	484	180	150	226	48	45
7	111	68	387	85	172	81	443	157	174	180	53	49
8	188	101	273	87	156	165	399	141	140	148	47	32
9	68	855	244	90	130	249	336	168	119	127	43	26
10	48	368	204	92	120	201	316	169	105	111	41	25
11	38	244	160	96	115	177	285	297	94	128	107	24
12	35	191	145	100	110	439	247	262	132	104	71	27
13	37	176	204	87	115	673	225	217	225	93	55	25
14	35	164	170	90	120	442	223	185	194	215	49	23
15	37	150	145	85	105	337	245	176	118	141	46	28
16	36	130	148	80	95	464	368	341	271	109	44	30
17	33	113	135	75	90	1,780	644	241	388	92	40	25
18	31	109	161	100	92	1,770	580	215	193	82	43	54
19	29	101	142	140	90	625	528	257	150	74	58	69
20	28	120	125	450	88	432	399	229	127	69	44	44
21	27	117	115	280	86	342	338	1,000	111	69	38	36
22	27	93	115	250	84	295	382	1,000	141	63	34	44
23	29	86	113	450	81	260	335	516	123	56	32	85
24	32	99	109	340	80	247	257	370	102	52	29	60
25	31	93	109	250	80	261	216	303	119	47	28	50
26	31	443	111	210	75	392	189	259	111	47	28	43
27	30	498	109	190	70	396	191	222	92	59	27	38
28	28	300	107	170	70	340	360	240	84	221	50	34
29	41	251	90	150	------	331	301	257	153	120	39	32
30	62	201	97	135	------	335	239	208	4,220	85	32	30
31	50	------	109	120	------	471	------	230	------	68	30	------
TOTAL	1,265	5,430	4,786	5,004	3,580	11,950	12,941	8,866	8,795	5,471	1,468	1,106
MEAN	40.8	181	154	161	128	385	431	286	293	176	47.4	36.9
MAX	188	855	387	450	350	1,780	1,700	1,000	4,220	1,170	107	85
MIN	19	43	90	75	70	66	189	141	84	47	27	23
CFSM	.54	2.38	2.02	2.12	1.68	5.06	5.66	3.76	3.85	2.31	.62	.48
IN.	.62	2.65	2.34	2.45	1.75	5.84	6.33	4.33	4.30	2.67	.72	.54

CAL YR 1972 TOTAL 54,557 MEAN 149 MAX 2,030 MIN 16 CFSM 1.96 IN 26.67
WTR YR 1973 TOTAL 70,662 MEAN 194 MAX 4,220 MIN 19 CFSM 2.55 IN 34.54

PEAK DISCHARGE (BASE, 1,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	2015	7.10	4,070				
4-2	0530	5.18	2,040				
5-21	1315	4.66	1,640				
6-30	1115	11.57	10,600				

04287300 Sonny Brook near Montpelier, Vt.

LOCATION.--Lat 44°16'08", long 72°37'37", Washington County, on left bank 20 ft (6 m) upstream from culvert on U. S. Highway 2, 1,000 ft (300 m) upstream from mouth, and 2.5 mi (4.0 km) west of Montpelier.

DRAINAGE AREA.--2.31 mi^2 (5.98 km^2).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 510 ft (155 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 3.20 ft^3/s (0.091 m^3/s), 18.81 in/yr (478 mm/yr).

EXTREMES.--Current year: Maximum discharge, 342 ft^3/s (9.69 m^3/s) June 13 (gage height, 7.40 ft or 2.256 m), from rating curve extended above 55 ft^3/s (1.56 m^3/s) as explained below; minimum, 0.07 ft^3/s (0.002 m^3/s) Oct. 4-7.

Period of record: Maximum discharge, 342 ft^3/s (9.69 m^3/s) June 13, 1973 (gage height, 7.40 ft or 2.256 m), from rating curve extended above 55 ft^3/s (1.56 m^3/s) on basis of computation of flow through culvert at gage height 7.23 ft (2.204 m); minimum, 0.01 ft^3/s (<0.001 m^3/s) Aug. 19-22, 1964.

REMARKS.--Records fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.22	3.7	5.8	3.5	1.4	17	5.1	2.6	22	.77	.45
2	.12	.28	2.5	4.7	7.0	1.3	41	4.4	2.2	12	1.1	.41
3	.08	.54	2.4	3.5	14	1.3	22	6.8	1.9	7.2	.94	.41
4	.07	.40	1.7	3.4	12	1.7	15	7.3	5.1	14	.94	.41
5	.07	.36	2.3	2.9	7.9	2.5	18	5.5	8.1	11	.83	.41
6	.07	.54	7.9	2.3	6.7	2.5	15	4.4	5.1	6.3	.59	5.1
7	3.0	.71	11	1.9	5.9	2.0	14	3.7	4.3	3.7	.65	2.0
8	1.7	3.4	7.3	1.7	5.1	5.5	12	3.2	3.4	2.6	.59	1.3
9	.50	18	5.6	1.5	4.6	8.9	9.8	4.3	2.6	2.0	.59	.94
10	.32	5.5	4.6	1.6	4.1	7.6	8.9	3.6	2.2	2.0	.59	.83
11	.25	2.9	3.2	1.7	3.7	9.1	7.5	8.4	9.1	5.1	1.9	.83
12	.25	2.1	3.8	1.5	3.5	29	5.9	7.1	30	2.0	.88	.77
13	.32	1.7	4.6	1.6	3.7	31	5.5	5.4	52	1.6	.77	.65
14	.25	1.4	3.6	1.6	3.5	18	5.9	4.2	19	4.3	.59	.77
15	.32	1.3	2.7	1.5	3.2	12	6.5	4.7	11	2.4	.59	1.9
16	.32	1.1	3.0	1.4	2.9	25	8.4	12	34	1.7	.59	1.3
17	.32	.89	2.7	1.3	2.6	76	8.9	6.7	21	1.3	.54	.94
18	.28	.89	3.0	1.7	2.2	45	6.4	5.4	12	1.1	.45	5.1
19	.22	.71	2.5	5.0	2.1	13	4.8	6.1	8.1	1.1	.36	2.2
20	.22	1.3	2.0	18	2.5	8.3	3.9	5.1	5.5	.94	.36	1.3
21	.20	1.2	1.9	14	2.4	6.1	3.4	40	6.7	1.1	.36	1.1
22	.20	.83	2.0	7.5	2.5	5.0	4.7	18	12	.88	.36	2.4
23	.25	.89	2.6	13	2.2	5.1	4.6	10	10	.65	.36	3.4
24	.28	.83	2.6	10	2.0	5.4	3.6	5.1	12	.65	.36	2.0
25	.17	.77	2.4	8.0	2.0	6.7	3.1	3.4	12	.59	.36	1.6
26	.10	17	2.2	6.7	1.7	12	3.1	2.6	8.6	.83	.36	1.3
27	.08	14	2.1	5.8	1.6	12	3.8	1.9	6.7	.83	.36	1.1
28	.08	8.3	1.8	5.0	1.5	9.3	9.1	2.4	5.1	1.1	.77	1.1
29	.77	6.5	1.5	3.5	------	8.6	7.9	3.1	16	1.9	.45	.83
30	.65	4.3	1.8	3.0	------	9.5	6.1	2.4	128	.94	.45	.77
31	.32	------	2.4	2.8	------	12	------	2.8	------	.83	.45	------
TOTAL	12.00	98.86	103.4	143.9	116.6	392.8	285.8	205.1	456.3	114.64	19.26	43.62
MEAN	.39	3.30	3.34	4.64	4.16	12.7	9.53	6.62	15.2	3.70	.62	1.45
MAX	3.0	18	11	18	14	76	41	40	128	22	1.9	5.1
MIN	.07	.22	1.5	1.3	1.5	1.3	3.1	1.9	1.9	.59	.36	.41
CFSM	.17	1.43	1.45	2.01	1.80	5.50	4.13	2.87	6.58	1.60	.27	.63
IN.	.19	1.59	1.67	2.32	1.88	6.33	4.60	3.30	7.35	1.85	.31	.70

CAL YR 1972 TOTAL 1,324.23 MEAN 3.62 MAX 60 MIN .06 CFSM 1.57 IN 21.33
WTR YR 1973 TOTAL 1,992.28 MEAN 5.46 MAX 128 MIN .07 CFSM 2.36 IN 32.08

PEAK DISCHARGE (BASE, 55 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	1800	5.73	177	6-16	1815	4.58	97
4-5	0045	4.27	78	6-29	2315	4.48	91
5-21	1100	4.43	88	6-30	0900	7.21	320
6-12	1700	5.11	131	6-30	1830	7.18	317
6-13	1430	7.40	342				

04288000 Mad River near Moretown, Vt.

LOCATION.--Lat 44°16'42", long 72°44'37", Washington County, on left bank at downstream side of highway bridge, 2.4 mi (3.9 km) downstream from Moretown, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--139 mi^2 (360 km^2).

PERIOD OF RECORD.--July to November 1910, October 1928 to current year. October 1928 monthly discharge only, published in WSP 1307.

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1933. Datum of gage is 543.93 ft (165.790 m) above mean sea level (levels by Vermont Department of Highways). July 6 to Nov. 4, 1910, nonrecording gage at same site at different datum. Nov. 20, 1928, to Sept. 27, 1930, nonrecording gage at same site at present datum.

AVERAGE DISCHARGE.--45 years (1928-73), 248 ft^3/s (7.023 m^3/s), 24.23 in/yr (615 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,300 ft^3/s (263 m^3/s) June 30 (gage height, 11.06 ft or 3.371 m), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) as explained below; maximum gage height, 12.83 ft (3.911 m) Feb. 3 (ice jam); minimum discharge, 35 ft^3/s (0.99 m^3/s) Sept. 5; minimum daily, 36 ft^3/s (1.02 m^3/s) Sept. 4, 5.

Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Sept. 22, 1938 (gage height, 16.34 ft or 4.980 m, from floodmarks), from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of computations of flow over dam at gage heights 9.98, 11.51, 16.34, and 19.4 ft (3.042, 3.508, 4.980 and 5.91 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Oct. 1, 1930.

Maximum discharge since at least 1830, 23,000 ft^3/s (651 m^3/s) Nov. 3, 1927 (gage height, 19.4 ft or 5.91 m, from floodmarks), by computation of peak flow over dam.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow; much greater regulation prior to 1958. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: Drainage area. WSP 854: 1934(M). WSP 1114: 1929, 1930(M), 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	105	333	350	280	125	1,120	396	431	1,390	95	39
2	61	115	270	320	380	120	3,580	385	472	671	107	39
3	51	305	270	300	700	120	1,480	546	346	466	235	38
4	45	242	270	250	500	125	1,000	631	336	437	235	36
5	43	191	350	230	380	155	1,060	443	363	402	119	36
6	40	179	1,040	180	320	150	818	431	304	310	90	678
7	356	186	1,270	160	310	145	741	374	368	244	95	261
8	524	308	693	160	280	300	650	320	254	197	80	103
9	177	1,570	600	160	240	450	533	368	206	163	70	76
10	114	666	423	170	240	360	502	380	172	148	100	64
11	90	452	320	170	230	320	460	637	159	336	350	56
12	83	370	270	170	220	750	396	559	605	172	155	51
13	94	362	350	160	230	1,200	368	460	825	144	98	48
14	84	332	320	160	240	800	380	374	533	478	82	46
15	102	297	290	150	210	600	443	341	310	264	78	91
16	96	248	270	150	190	850	664	618	950	184	75	76
17	87	205	250	140	180	3,500	1,170	425	1,020	144	66	60
18	83	215	260	200	200	3,000	1,120	374	484	123	62	527
19	75	195	260	300	190	1,100	1,120	631	368	104	71	370
20	69	205	230	850	170	756	846	631	299	95	60	161
21	65	195	210	600	150	591	755	2,620	264	95	55	119
22	66	145	210	550	150	507	1,240	2,020	727	84	49	187
23	80	150	210	850	150	458	1,090	958	414	75	47	374
24	120	160	200	650	140	429	664	657	437	68	44	202
25	102	150	200	500	140	438	514	514	443	64	42	151
26	86	921	210	400	140	578	437	431	310	62	41	118
27	78	923	200	350	130	565	408	368	254	68	41	99
28	74	550	190	310	130	478	657	408	206	346	78	88
29	115	467	170	280	------	478	657	618	425	490	57	79
30	191	358	180	260	------	496	472	437	4,770	176	44	71
31	126	------	200	240	------	671	------	448	------	113	41	------
TOTAL	3,472	10,767	10,519	9,720	6,840	20,615	25,345	18,803	17,055	8,113	2,862	4,344
MEAN	112	359	339	314	244	665	845	607	569	262	92.3	145
MAX	524	1,570	1,270	850	700	3,500	3,580	2,620	4,770	1,390	350	678
MIN	40	105	170	140	130	120	368	320	159	62	41	36
CFSM	.81	2.58	2.44	2.26	1.76	4.78	6.08	4.37	4.09	1.88	.66	1.04
IN.	.93	2.88	2.82	2.60	1.83	5.52	6.78	5.03	4.56	2.17	.77	1.16

CAL YR 1972 TOTAL 111,599 MEAN 305 MAX 4,360 MIN 31 CFSM 2.19 IN 29.87
WTR YR 1973 TOTAL 138,455 MEAN 379 MAX 4,770 MIN 36 CFSM 2.73 IN 37.05

PEAK DISCHARGE (BASE, 3,400 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2215	7.11	3,480	5-21	1245	8.13	4,780
3-17	-	-	†6,500	6-30	1215	11.06	9,300
4-2	0600	8.35	5,070				

† About.

NOTE.--No gage-height record Feb. 3 to Mar. 18.

04288500 Waterbury Reservoir near Waterbury, Vt.

LOCATION.--Lat 44°22'54", long 72°46'13", Washington County, at dam on Little River, 2.7 mi (4.3 km) upstream from mouth and 3.5 mi (5.6 km) north of Waterbury.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--September 1937 to current year. September 1937 to August 1938 monthend contents only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Pior to Dec. 10, 1938, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum elevation, 601.35 ft (183.291 m) July 2; minimum, 562.01 ft (171.301 m) Mar. 11.
Period of record: Maximum elevation, 613.45 ft (186.980 m) May 4, 1940; minimum observed, 501.3 ft (152.80 m) Oct. 16, 1938.

REMARKS.--Reservoir is formed by earthfill dam completed by Corps of Engineers during summer of 1937 for flood control and storage of water for power. Usable capacity for storage of water for power, 1,582,700,000 ft³ (44,822,000 m³) between elevations 500.0 ft or 152.40 m and 592.0 ft or 180.44 m (sill of taintor gate); for flood control, 1,229,600,000 ft³ (34,822,000 m³) between elevations 592.0 ft or 180.44 m and 617.5 ft or 188.21 m (crest of spillway); total usable capacity, 2,812,300,000 ft³ (79,644,000 m³).

Capacity table (elevation, in feet, and contents, in millions of cubic feet)

560.0	658.8	590.0	1,505.0
570.0	891.9	600.0	1,913.4
580.0	1,168.5	610.0	2,398.0

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	588.08	589.20	590.48	591.22	588.43	570.20	580.88	591.19	592.02	601.31	590.18	589.69
2	588.18	588.69	590.77	591.42	588.08	569.14	585.54	590.71	592.15	599.81	590.14	589.78
3	588.26	588.46	591.10	591.20	589.81	568.08	586.60	591.10	591.69	597.48	590.66	589.87
4	588.31	588.88	590.72	590.97	590.79	567.09	586.99	591.09	592.08	595.53	590.72	589.43
5	588.37	589.19	590.60	590.81	590.40	566.15	587.86	590.59	592.67	593.69	591.11	589.10
6	588.40	588.83	591.40	590.50	589.83	564.73	587.95	590.28	592.72	592.64	590.88	590.79
7	588.59	588.63	591.52	590.26	589.31	563.23	587.79	589.72	592.62	591.91	590.70	590.48
8	589.08	589.12	590.87	589.90	588.80	563.13	587.45	589.51	592.12	591.17	590.39	590.14
9	589.28	590.88	590.69	589.53	588.18	563.35	586.96	589.53	591.40	590.36	590.08	590.10
10	589.40	590.72	591.02	589.35	587.62	562.71	586.45	589.63	590.58	589.61	589.76	589.57
11	589.31	590.68	590.92	589.26	587.07	562.03	585.85	590.26	589.89	589.46	590.09	588.98
12	589.30	591.11	590.61	589.04	586.27	566.78	585.15	590.49	590.82	588.59	590.28	588.49
13	589.28	590.88	590.53	588.83	585.55	570.55	584.41	590.61	592.52	587.65	589.93	588.08
14	589.40	590.77	590.58	588.97	584.74	571.12	583.69	590.20	592.84	587.74	589.67	587.66
15	589.68	590.61	590.50	588.91	584.06	571.32	583.06	589.85	592.39	587.00	589.39	588.58
16	589.56	590.40	590.75	588.85	583.27	572.46	583.04	590.26	595.20	586.33	589.30	588.88
17	589.57	590.14	590.51	588.74	582.42	578.40	584.76	589.93	596.70	586.40	589.22	588.56
18	589.51	590.38	590.30	588.59	581.51	583.37	586.03	589.40	595.90	586.69	589.31	590.76
19	589.38	590.60	590.20	588.96	580.65	583.92	587.48	589.26	594.69	586.98	589.42	590.62
20	589.25	590.08	590.07	591.10	579.76	583.78	588.19	589.38	593.67	587.27	589.31	589.90
21	589.34	589.51	589.90	591.92	578.97	583.36	588.79	593.11	593.19	587.35	589.15	589.53
22	589.43	589.01	589.89	591.47	577.97	582.73	591.91	596.39	593.52	587.46	588.97	590.35
23	589.31	589.09	590.08	591.69	577.05	582.02	593.22	596.17	593.40	587.64	588.80	591.22
24	589.51	588.79	590.25	591.60	575.64	581.29	593.19	594.72	593.31	587.80	588.61	590.71
25	589.52	589.00	590.42	591.42	574.37	580.58	592.83	593.54	593.31	587.98	588.65	590.11
26	589.49	590.55	590.47	591.23	573.42	580.24	592.37	592.94	592.82	588.34	588.74	589.76
27	589.39	591.18	590.38	591.01	572.35	579.89	591.87	592.27	592.13	588.60	588.81	589.39
28	589.55	590.98	590.30	590.77	571.27	579.37	591.99	591.81	591.32	588.90	589.70	589.07
29	589.87	590.78	590.01	590.40	------	578.81	592.15	591.74	591.34	589.77	589.85	588.90
30	589.82	590.41	589.90	589.81	------	578.47	591.78	591.27	599.90	590.02	589.67	588.69
31	589.67	------	590.10	589.19	------	578.90	------	591.88	------	589.99	589.59	------
MEAN	589.20	589.92	590.51	590.22	583.13	573.78	587.87	591.25	592.96	590.05	589.71	589.57
MAX	589.87	591.18	591.52	591.92	590.79	583.92	593.22	596.39	599.90	601.31	591.11	591.22
MIN	588.08	588.46	589.89	588.59	571.27	562.03	580.88	589.26	589.89	586.33	588.61	587.66
(†)	1,493.2	1,520.9	1,508.8	1,476.2	925.1	1,136.6	1,574.1	1,578.0	1,409.1	1,504.6	1,490.4	1,454.6
(‡)	+23.6	+10.7	-4.52	-12.2	-228	+79.0	+169	+1.46	+128	-151	-5.30	-12.3

CAL YR 1972 MEAN 583.64 MAX 597.92 MIN 540.74 (‡) +1.40
WTR YR 1973 MEAN 588.20 MAX 601.31 MIN 562.03 (‡) -.91

† Contents, in millions of cubic feet, at end of month.
‡ Change in contents, equivalent in cubic feet per second.

04289000 Little River near Waterbury, Vt.

LOCATION.--Lat 44°22'12", long 72°46'11", Washington County, on right bank 1 mi (1.6 km) downstream from Waterbury Reservoir, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) north of Waterbury.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--July to October 1910 (gage heights only), October 1935 to current year. October, November 1935 monthly discharge only, published in WSP 1307. Prior to October 1962, published as Waterbury River near Waterbury.

GAGE.--Water-stage recorder. Concrete control since Dec. 8, 1937. Datum of gage is 428.00 ft (130.454 m) above mean sea level (levels by Corps of Engineers). July 7 to Oct. 31, 1910, nonrecording gage at site 2 mi (3 km) upstream at different datum.

AVERAGE DISCHARGE.--38 years, 230 ft³/s (6.514 m³/s), 28.14 in/yr (715 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,000 ft³/s (56.6 m³/s) July 2 (gage height, 10.57 ft or 3.222 m); minimum daily, 7.1 ft³/s (0.20 m³/s) July 20.

Period of record: Maximum discharge, 6,520 ft³/s (185 m³/s) Mar. 18, 1936 (gage height, 19.38 ft or 5.907 m); minimum daily, 0.6 ft³/s (0.017 m³/s) several times during summers of 1938-39, 1941, and 1944. Maximum discharge since construction of Waterbury Reservoir in 1937, 4,080 ft³/s (116 m³/s) Dec. 9, 1937 (gage height, 14.88 ft or 4.535 m).

REMARKS.--Records good. Flow completely regulated by Waterbury Reservoir (see preceding page).

REVISIONS (WATER YEARS).--WSP 824: 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	274	192	20	435	405	598	601	616	623	12	12
2	12	310	18	249	374	396	624	595	618	1,350	148	12
3	13	314	23	328	22	381	608	450	615	1,630	16	11
4	13	13	298	220	17	375	602	590	600	1,500	144	231
5	13	13	155	271	434	415	541	590	625	1,350	13	249
6	13	262	169	272	441	523	592	545	624	837	207	229
7	154	202	527	218	444	524	586	573	604	594	223	388
8	15	212	538	277	442	532	585	357	613	543	220	254
9	16	400	356	278	435	532	582	374	616	538	226	97
10	18	502	85	214	380	532	582	346	616	540	229	307
11	85	263	215	167	366	530	581	447	619	478	14	313
12	80	14	282	206	423	551	580	593	612	573	13	260
13	76	289	266	191	433	562	563	595	630	575	211	230
14	17	230	214	60	436	554	573	595	618	580	181	250
15	13	214	206	130	431	514	572	596	599	575	184	19
16	128	215	77	133	418	561	572	599	629	573	105	15
17	125	215	239	159	426	604	550	550	627	145	89	232
18	121	14	230	233	436	606	596	604	933	23	12	389
19	119	14	198	119	419	591	599	605	969	13	13	592
20	121	362	195	82	421	587	543	453	795	7.1	104	591
21	13	341	216	59	390	570	599	515	680	101	115	372
22	13	292	158	528	462	580	611	631	644	67	124	195
23	152	56	63	598	412	577	648	881	599	12	111	538
24	123	217	63	597	550	577	680	1,220	605	12	122	583
25	116	15	63	418	520	577	657	971	605	11	17	539
26	100	114	144	396	377	581	628	613	590	13	12	333
27	114	348	183	344	414	579	605	610	597	12	12	311
28	13	413	168	343	408	577	604	612	590	13	14	252
29	13	376	234	362	-------	577	604	618	590	17	48	197
30	161	349	170	417	-------	578	589	617	688	12	162	192
31	163	-------	81	411	-------	583	-------	614	-------	104	101	-------
TOTAL	2,141	6,854	6,124	8,396	11,168	16,629	17,854	18,560	19,366	13,421.1	3,202	8,193
MEAN	69.1	228	198	271	399	536	595	599	646	433	103	273
MAX	163	502	538	598	550	606	680	1,220	969	1,630	229	592
MIN	12	13	18	20	17	375	541	346	590	7.1	12	11
MEAN†	92.7	239	193	259	171	615	764	600	773	282	98.0	261
CFSM†	.84	2.15	1.74	2.33	1.54	5.54	6.88	5.41	6.96	2.54	.88	2.35
IN.†	.96	2.40	2.01	2.69	1.61	6.39	7.68	6.24	7.77	2.93	1.02	2.62

CAL YR 1972 TOTAL 91,861.3 MEAN 251 MAX 1,660 MIN 9.4 MEAN† 252 CFSM† 2.27 IN† 30.96
WTR YR 1973 TOTAL 131,908.1 MEAN 361 MAX 1,630 MIN 7.1 MEAN† 362 CFSM† 3.26 IN† 44.32

† Adjusted for change in contents in Waterbury Reservoir.

04290500 Winooski River near Essex Junction, Vt.

LOCATION.--Lat 44°28'44", long 73°08'21", Chittenden County, on right bank 0.5 mi (0.8 km) downstream from Muddy Brook and 2 mi (3 km) southwest of Essex Junction.

DRAINAGE AREA.--1,044 mi² (2,704 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 185 ft (56 m) from topographic map; prior to Oct. 1, 1964, datum was 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--45 years, 1,659 ft³/s (46.98 m³/s), 21.58 in/yr (548 mm/yr), adjusted for storage since October 1938.

EXTREMES.--Current year: Maximum discharge, 28,700 ft³/s (813 m³/s) July 1 (gage height, 17.47 ft or 5.325 m); minimum daily, 172 ft³/s (4.87 m³/s) Aug. 26.

Period of record: Maximum discharge, 45,300 ft³/s (1,280 m³/s) Mar. 19, 1936 (gage height, 24.54 ft or 7.480 m, present datum), from rating curve extended above 27,000 ft³/s (765 m³/s) on basis of computations of flow over dam at gage heights 19.72, 24.54, and 51.4 ft (6.011, 7.480, and 15.67 m) and slope-area measurement at gage height 51.4 ft or 15.67 m (all at present datum); minimum daily, 24 ft³/s (0.68 m³/s) Sept. 7, 1968.

Maximum discharge since at least 1830, 113,000 ft³/s (3,200 m³/s) Nov. 4, 1927 (gage height, 51.4 ft or 15.67 m, present datum, from floodmarks), from rating curve extended above 27,000 ft³/s (765 m³/s) by method explained above.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Flow regulated by powerplants above station, by Peacham Pond and Mollys Falls Reservoir (combined usable capacity, 492,000,000 ft³ or 13,900,000 m³), by Waterbury Reservoir since 1937 (see p.240), and by East Barre and Wrightsville Detention Reservoirs since 1935 (see p. 235). See table with station 04286000 for monthend contents in Peacham Pond and Mollys Falls Reservoir.

REVISIONS (WATER YEARS).--WSP 714: 1930(M). WSP 894: Drainage area. WSP 1307: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	921	2,260	1,600	1,700	1,150	5,170	3,370	4,340	26,700	600	356
2	496	1,020	1,670	2,500	1,900	1,150	13,400	3,030	3,880	11,400	901	254
3	252	1,000	1,490	2,200	3,900	1,200	11,900	2,860	3,120	7,850	1,280	367
4	239	1,240	1,310	2,000	3,500	1,300	7,390	4,480	2,750	6,550	1,680	447
5	259	933	1,440	1,800	3,000	1,700	7,810	3,600	4,570	6,500	1,370	513
6	273	804	1,610	1,400	2,200	1,800	6,850	3,160	3,930	4,690	1,050	1,940
7	433	1,240	7,250	1,200	2,200	1,900	5,830	2,890	4,320	3,520	1,170	2,910
8	1,810	1,150	3,730	1,200	2,100	3,500	5,360	2,370	3,130	2,970	904	1,780
9	1,410	6,960	2,820	1,200	1,900	5,800	4,470	2,170	2,630	2,570	1,030	1,230
10	971	6,050	2,680	1,400	1,700	4,500	4,090	2,600	2,220	2,320	987	636
11	406	3,280	2,170	1,400	1,700	3,200	3,840	3,240	1,890	2,680	1,240	692
12	471	2,350	1,540	1,400	1,600	8,000	3,500	4,780	4,240	2,410	1,290	704
13	754	2,020	1,720	1,250	1,700	12,000	3,200	3,840	6,960	1,930	998	782
14	184	1,970	2,280	1,200	1,800	7,000	3,000	3,180	6,750	2,310	912	647
15	640	1,810	2,260	1,200	1,800	4,800	3,100	2,860	3,620	2,920	759	928
16	626	1,570	1,370	1,200	1,600	5,500	3,600	3,920	4,010	2,030	730	621
17	393	1,230	1,260	1,100	1,500	10,000	5,200	3,640	9,650	1,730	738	790
18	545	1,140	1,500	1,200	1,500	21,000	6,000	3,000	5,450	1,200	526	2,100
19	625	966	1,500	2,000	1,400	9,400	5,500	3,350	4,300	971	630	2,100
20	497	1,130	1,600	6,000	1,450	6,550	4,900	3,840	3,470	874	587	1,500
21	372	1,570	1,600	5,000	1,500	5,100	4,300	8,420	2,930	854	503	1,300
22	326	1,400	1,550	4,000	1,500	4,350	5,600	14,700	5,600	921	486	1,200
23	458	704	1,450	5,400	1,400	3,730	6,000	8,370	5,210	803	564	2,700
24	688	1,080	1,350	7,400	1,350	3,540	4,200	6,210	3,480	644	574	2,480
25	673	1,220	1,250	4,500	1,350	3,450	3,680	5,080	3,810	489	442	2,080
26	644	1,510	1,310	3,400	1,200	3,760	3,160	3,840	3,300	514	172	1,660
27	694	7,110	1,310	2,700	1,200	4,690	2,840	3,330	2,820	602	327	1,290
28	343	3,950	1,350	2,300	1,150	3,850	3,490	3,160	2,430	1,100	719	1,020
29	496	3,440	1,250	2,000	------	3,610	4,900	4,130	2,260	1,930	701	917
30	1,000	2,730	1,200	1,700	------	3,490	4,270	3,790	12,700	1,400	613	782
31	956	------	1,200	1,800	------	3,940	------	3,840	------	1,030	597	------
TOTAL	18,167	63,498	58,280	74,650	50,800	154,960	156,550	131,050	129,770	104,412	25,080	34,776
MEAN	586	2,117	1,880	2,408	1,814	4,999	5,218	4,227	4,326	3,368	809	1,226
MAX	1,810	7,110	7,250	7,400	3,900	21,000	13,400	14,700	12,700	26,700	1,680	2,910
MIN	184	704	1,200	1,100	1,150	1,150	2,840	2,170	1,890	489	172	254
MEAN†	608	2,119	1,860	2,384	1,511	5,137	5,475	4,199	4,653	3,023	799	1,205
CFSM†	.58	2.03	1.78	2.28	1.45	4.92	5.24	4.02	4.46	2.90	.77	1.15
IN†	.67	2.26	2.06	2.63	1.51	5.67	5.85	4.64	4.97	3.34	.88	1.29

CAL YR 1972 TOTAL 783,434 MEAN 2,141 MAX 25,300 MIN 42 MEAN† 2,142 CFSM† 2.05 IN† 27.93
WTR YR 1973 TOTAL 1,003,993 MEAN 2,751 MAX 26,700 MIN 172 MEAN† 2,751 CFSM† 2.64 IN† 35.78

PEAK DISCHARGE (BASE, 12,500 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	-	-	†22,700				
4-2	2015	11.55	16,600				
5-21	2400	11.62	16,800				
7-1	1030	17.47	28,700				

† About.

† Adjusted for change in contents in Peacham Pond, Mollys Falls Reservoir, East Barre and Wrightsville Detention Reservoirs, and Waterbury Reservoir. Records of monthend contents in Peacham Pond and Mollys Falls Reservoir furnished by Green Mountain Power Corp.

NOTE.--No gage-height record Mar. 4-19.

04292000 Lamoille River at Johnson, Vt.

LOCATION.--Lat 44°37'22", long 72°40'50", Lamoille County, on right bank above falls, 0.7 mi (1.1 km) upstream from bridge in Johnson, and 0.8 mi (1.3 km) upstream from Gihon River.

DRAINAGE AREA.--310 mi² (803 km²).

PERIOD OF RECORD.--July to December 1910, June 1911 to December 1913 (monthly discharge only, January to March 1912, Feburary 1913), September 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 495 ft (151 m) from topographic map. Prior to Dec. 31, 1913, nonrecording gage at bridge 0.7 mi (1.1 km) downstream at different datum.

AVERAGE DISCHARGE.--47 years (1911-13, 1928-73), 522 ft³/s (14.78 m³/s), 22.87 in/yr (581 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,400 ft³/s (408 m³/s) July 1 (gage height, 17.33 ft or 5.282 m), from rating curve extended as explained below; minimum, 120 ft³/s (3.40 m³/s) Oct. 6; minimum daily, 136 ft³/s (3.85 m³/s) Sept. 5.

Period of record: Maximum discharge, 14,400 ft³/s (408 m³/s) July 1, 1973 (gage height, 17.33 ft or 5.282 m), from rating curve extended above 8,500 ft³/s (241 m³/s) on basis of computation of flow over dam at gage height 16.48 ft (5.023 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 2, 1935; minimum daily, 16 ft³/s (0.45 m³/s) Oct. 26, 1947.

REMARKS.--Records good except those for winter period, which are fair. Some regulation by powerplant above station.

REVISIONS (WATER YEARS).--WSP 894: Drainage area. WSP 1114: 1933, 1934(M). WSP 1237: 1912(M), 1930, 1932(M).

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	223	501	450	500	340	2.260	1.060	1.620	10.000	253	158
2	232	219	396	1.000	560	350	4.190	883	1.460	2.870	213	153
3	194	269	309	850	900	370	2.790	883	1.010	1.930	304	150
4	189	401	360	650	1.250	380	1.990	2.220	780	1.430	359	147
5	182	363	374	550	900	380	2.310	1.280	981	1.880	297	136
6	177	293	517	470	700	420	1.840	1.000	1.140	1.260	240	890
7	224	345	1.530	320	600	400	1.430	841	884	880	243	1.330
8	1.100	484	1.020	330	550	520	1.290	678	673	695	247	536
9	716	2.410	796	360	530	1.100	1.040	522	498	572	233	271
10	458	1.410	685	440	520	950	973	775	418	471	247	194
11	184	846	580	450	480	800	905	1.050	352	775	375	170
12	185	590	520	620	510	2.000	794	1.490	573	627	320	156
13	219	400	480	390	490	3.310	729	1.510	1.790	463	261	167
14	271	379	490	380	510	2.010	707	1.120	1.720	1.250	229	179
15	298	377	460	440	470	1,390	847	874	992	989	200	297
16	283	364	440	420	470	1.860	1.130	1.490	2.070	719	197	339
17	301	261	440	420	410	3.140	1.970	1.120	4.400	514	197	253
18	288	228	420	420	410	6,420	2.240	820	1.600	418	253	1.230
19	277	273	350	520	400	2.540	1.900	816	1.040	331	194	1.620
20	269	272	380	1.100	400	1.500	1.660	907	788	316	145	704
21	251	322	400	1.300	400	1.130	1.330	2.550	652	367	261	446
22	229	370	410	1.000	410	979	1.790	4.680	2.240	331	240	398
23	202	270	380	1.200	400	820	2.050	2.260	1.980	264	158	1.720
24	369	220	360	1.700	400	794	1.320	1.390	1.190	233	156	1.030
25	383	273	450	1.100	380	838	983	1.060	1.190	229	153	680
26	329	607	470	900	380	1.130	812	869	912	243	153	471
27	222	1.990	350	760	380	1.470	691	735	715	247	164	343
28	188	1.080	350	680	360	1.110	583	739	566	257	176	301
29	294	888	340	620	------	1.110	1.950	1.200	569	572	185	286
30	508	661	340	600	------	1.120	1.430	1.200	5.530	438	203	250
31	355	------	330	500	------	1.590	------	1.110	------	304	200	------
TOTAL	9.572	17.088	15.228	20.940	14.670	42.271	45.934	39.132	40.333	31.875	7.056	15.005
MEAN	309	570	491	675	524	1.364	1.531	1.262	1.344	1.028	228	500
MAX	1.100	2.410	1.530	1.700	1.250	6.420	4.190	4.680	5.530	10.000	375	1.720
MIN	177	219	309	320	360	340	583	522	352	229	145	136
CFSM	1.00	1.84	1.58	2.18	1.69	4.40	4.94	4.07	4.34	3.32	.74	1.61
IN.	1.15	2.05	1.83	2.51	1.76	5.07	5.51	4.70	4.84	3.83	.85	1.80

CAL YR 1972 TOTAL 221.912 MEAN 606 MAX 7.400 MIN 89 CFSM 1.95 IN 26.63
WTR YR 1973 TOTAL 299.104 MEAN 819 MAX 10.000 MIN 136 CFSM 2.64 IN 35.89

PEAK DISCHARGE (BASE, 5,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0630	12.80	7,780				
6-17	0130	11.63	6,450				
7-1	0300	17.33	14,400				

04292100 Stony Brook near Eden, Vt.

LOCATION.--Lat 44°41'38", long 72°35'00", Lamoille County, on right bank 20 ft (6 m) downstream from bridge on State Highway 100, 500 ft (150 m) upstream from mouth, and 2 mi (3 km) southwest of Eden.

DRAINAGE AREA.--4.21 mi² (10.90 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (271 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 10.3 ft³/s (0.292 m³/s), 33.22 in/yr (844 mm/yr).

EXTREMES.--Current year: Maximum discharge, 890 ft³/s (25.2 m³/s) June 30 (gage height, 3.64 ft or 1.109 m), from rating curve extended above 250 ft³/s (7.08 m³/s); maximum gage height, 4.48 ft (1.366 m) Jan. 23 (backwater from ice); minimum discharge, 1.8 ft³/s (0.051 m³/s) Oct. 5.

Period of record: Maximum discharge, 890 ft³/s (25.2 m³/s) June 30, 1973 (gage height, 3.64 ft or 1.109 m), from rating curve extended above 250 ft³/s (7.08 m³/s); maximum gage height, 4.89 ft (1.490 m) Mar. 18, 1972 (backwater from ice); minimum discharge, 0.40 ft³/s (0.011 m³/s) Sept. 24, 1964.

REMARKS.--Records good except those for winter period and those above 100 ft³/s (2.83 m³/s), which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	6.0	8.4	40	8.0	4.4	101	17	21	88	4.8	2.9
2	2.3	5.7	7.6	25	10	4.2	113	15	15	36	9.9	2.6
3	2.1	19	7.0	15	35	4.2	40	18	12	19	12	2.5
4	2.1	14	6.0	11	25	4.7	31	24	14	15	7.7	2.6
5	2.0	11	7.0	9.0	15	6.0	35	15	15	14	8.6	2.5
6	2.0	8.7	40	7.0	10	5.6	25	13	13	11	6.1	40
7	7.3	7.8	30	6.2	9.5	5.3	19	12	11	9.1	6.2	8.4
8	11	24	17	6.0	8.5	23	16	10	9.6	7.7	5.5	5.1
9	6.7	58	12	7.0	7.4	30	14	11	8.4	6.6	5.1	4.1
10	4.2	24	10	7.0	6.6	11	13	13	7.5	6.2	6.1	3.7
11	3.4	15	8.0	7.0	6.3	12	12	17	8.6	9.3	9.9	3.7
12	5.2	11	7.0	6.6	6.1	50	13	24	84	6.8	6.1	3.5
13	5.2	9.9	17	6.0	5.9	60	12	28	24	6.2	4.8	3.4
14	4.2	8.7	13	6.0	5.8	39	12	16	14	9.6	4.5	3.7
15	11	7.4	11	5.4	5.6	29	14	14	11	6.8	4.1	8.6
16	6.1	6.6	9.4	4.9	5.4	45	32	26	106	8.8	4.0	5.7
17	9.7	5.6	8.2	5.2	5.3	78	11	17	34	6.2	3.7	4.3
18	6.4	5.4	7.5	8.2	5.2	103	11	13	16	5.5	4.8	74
19	4.9	5.0	7.0	8.2	5.2	38	11	14	12	4.9	5.3	21
20	4.0	5.2	6.8	40	5.2	26	44	70	9.9	4.9	4.0	13
21	3.5	6.2	6.4	30	4.9	20	38	73	11	6.1	3.5	11
22	3.5	6.0	6.4	20	4.9	17	80	32	19	4.9	3.4	56
23	9.5	5.8	6.4	35	4.9	15	47	19	14	4.3	3.2	40
24	16	5.6	6.4	45	4.7	14	25	15	12	4.0	3.1	23
25	9.5	5.6	6.0	20	4.7	13	18	12	11	3.8	3.1	17
26	6.6	40	6.0	14	4.7	21	15	11	8.6	6.8	3.1	11
27	5.4	20	6.0	11	4.4	25	13	12	7.5	11	3.0	9.6
28	4.9	15	6.0	9.0	4.4	21	16	22	7.0	11	7.2	9.3
29	19	12	6.4	8.0	-------	22	35	16	12	23	4.1	7.7
30	9.9	10	6.4	7.0	-------	34	23	12	320	7.2	3.4	6.6
31	7.0	-------	6.0	6.5	-------	81	-------	25	-------	5.5	3.1	-------
TOTAL	198.6	384.2	308.3	436.2	228.6	861.4	889	636	868.1	369.2	163.4	406.6
MEAN	6.41	12.8	9.95	14.1	8.16	27.8	29.6	20.5	28.9	11.9	5.27	13.6
MAX	19	58	40	45	35	103	113	73	320	88	12	74
MIN	2.0	5.0	6.0	4.9	4.4	4.2	11	10	7.0	3.8	3.0	2.5
CFSM	1.52	3.04	2.36	3.35	1.94	6.60	7.03	4.87	6.86	2.83	1.25	3.23
IN.	1.75	3.39	2.72	3.85	2.02	7.61	7.85	5.60	7.67	3.26	1.44	3.59

CAL YR 1972 TOTAL 4,539.9 MEAN 12.4 MAX 208 MIN 1.2 CFSM 2.95 IN 40.12
WTR YR 1973 TOTAL 5,747.6 MEAN 15.7 MAX 320 MIN 2.0 CFSM 3.73 IN 50.79

PEAK DISCHARGE (BASE, 110 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	1845	3.55	625	6-16	1530	3.42	340
4-1	1745	3.39	289	6-30	2115	3.64	890
4-17	1545	3.28	171	9-6	0530	3.20	113
4-22	1015	3.22	127	9-18	1530	3.39	289
5-20	2315	3.47	440	9-22	2100	3.45	400
6-12	1315	3.51	525				

04292500 Lamoille River at East Georgia, Vt.

LOCATION.--Lat 44°40'45", long 73°04'23", Franklin County, on right bank at East Georgia, 0.5 mi (0.8 km) upstream from railroad bridge and 1 mi (1.6 km) downstream from Beaver Meadow Brook.

DRAINAGE AREA.--686 mi² (1,777 km²).

PERIOD OF RECORD.--August 1929 to current year. Prior to October 1937, published as "near Milton."

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (86.9 m) from topographic map. Prior to Dec. 1, 1937, at site 3.5 mi (5.6 km) downstream at different datum.

AVERAGE DISCHARGE.--44 years, 1,202 ft³/s (34.04 m³/s), 23.79 in/yr (604 mm/yr), adjusted to present drainage area.

EXTREMES.--Current year: Maximum discharge, 18,000 ft³/s (510 m³/s) July 1 (gage height, 11.04 ft or 3.365 m); maximum gage height, 12.05 ft (3.673 m) Mar. 9 (ice jam); minimum daily discharge, 312 ft³/s (8.84 m³/s) Sept. 5.

Period of record: Maximum discharge, 23,200 ft³/s (657 m³/s) Mar. 19, 1936 (gage height, 12.52 ft or 3.816 m, site and datum then in use), by computation of peak flow over dam; maximum gage height, 18.81 ft (5.733 m) Apr. 3, 1959 (ice jam); minimum daily discharge, 74 ft³/s (2.10 m³/s) Sept. 26, 1964.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Low flow regulated by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WSP 694: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	600	1,200	900	1,100	760	3,900	2,240	3,150	14,000	612	396
2	500	520	940	2,200	1,200	740	7,950	1,830	3,190	10,700	658	350
3	400	600	780	1,900	1,900	740	8,150	1,690	2,380	4,050	1,360	324
4	400	900	800	1,400	2,700	780	4,720	3,000	1,730	2,650	994	322
5	400	800	900	1,200	2,000	860	5,300	2,740	2,360	3,240	900	312
6	400	640	1,100	1,000	1,600	900	4,740	2,030	2,340	2,890	715	2,540
7	500	700	3,500	860	1,350	860	3,450	1,790	2,000	1,830	717	3,430
8	2,500	900	2,860	740	1,250	1,100	2,910	1,470	1,530	1,390	647	1,670
9	1,500	5,000	2,190	700	1,150	2,400	2,330	1,240	1,180	1,150	575	923
10	900	3,500	1,800	840	1,100	2,000	2,060	1,430	962	988	608	635
11	400	2,000	1,500	880	1,000	1,700	2,020	1,700	833	951	1,410	510
12	400	1,500	1,300	900	1,100	4,000	1,720	2,900	1,560	1,220	978	425
13	450	1,000	1,200	900	1,100	7,000	1,550	3,080	4,180	935	670	410
14	550	950	1,100	840	1,100	5,000	1,460	2,470	3,580	1,440	576	414
15	550	900	1,000	680	1,000	3,000	1,590	1,790	2,150	2,080	486	871
16	500	800	960	880	1,000	3,800	1,920	2,430	3,000	1,880	625	1,010
17	500	660	960	920	950	6,000	3,240	2,590	8,200	1,230	451	760
18	500	580	920	960	880	12,000	4,480	1,740	5,020	861	702	2,430
19	490	650	800	1,100	880	6,000	4,020	1,790	2,400	762	1,080	5,180
20	480	650	820	2,500	860	3,800	3,730	2,210	1,720	702	769	2,430
21	470	750	860	2,800	860	2,720	2,870	4,070	1,370	604	457	1,520
22	460	800	900	2,200	880	2,230	3,410	9,890	2,390	716	532	1,270
23	450	650	840	2,600	860	1,860	4,720	7,740	4,360	553	456	3,790
24	700	540	800	3,700	860	1,780	3,110	3,600	2,780	486	368	3,060
25	1,000	660	980	2,500	820	1,800	2,050	2,440	1,930	447	338	1,890
26	800	1,500	1,050	2,000	780	2,080	1,730	1,890	1,710	530	324	1,340
27	600	4,200	760	1,600	820	2,810	1,480	1,570	1,350	634	328	1,070
28	450	3,000	760	1,450	780	2,350	1,380	1,540	1,090	1,070	998	877
29	700	2,200	740	1,350	-------	2,100	2,690	2,110	934	1,990	740	786
30	1,100	1,700	740	1,200	-------	2,060	3,200	2,410	4,900	1,440	487	704
31	760	-------	760	1,200	-------	2,650	-------	1,950	-------	823	429	-------
TOTAL	20,210	39,850	35,820	44,900	31,880	87,880	97,880	81,370	76,339	64,242	20,990	41,649
MEAN	652	1,328	1,155	1,448	1,139	2,835	3,263	2,625	2,545	2,072	677	1,388
MAX	2,500	5,000	3,500	3,700	2,700	12,000	8,150	9,890	8,200	14,000	1,410	5,180
MIN	400	520	740	680	780	740	1,380	1,240	833	447	324	312
CFSM	.95	1.94	1.68	2.11	1.66	4.13	4.76	3.83	3.71	3.02	.99	2.02
IN.	1.10	2.16	1.94	2.43	1.73	4.77	5.31	4.41	4.14	3.48	1.14	2.26

CAL YR 1972 TOTAL 499,819 MEAN 1,366 MAX 14,000 MIN 240 CFSM 1.99 IN 27.10
WTR YR 1973 TOTAL 643,010 MEAN 1,762 MAX 14,000 MIN 312 CFSM 2.57 IN 34.87

PEAK DISCHARGE (BASE, 10,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18			†13,000				
5-22	1530	9.16	10,700				
7-1	1930	11.04	18,000				

† About.

NOTE.--No gage-height record Oct. 1 to Dec. 7, Dec. 11 to Jan. 10, Mar. 12-20.

04292700 Stone Bridge Brook near Georgia Plains, Vt.

LOCATION.--Lat 44°42'13", long 73°10'54", Franklin County, on left bank 20 ft (6 m) upstream from culvert on gravel road and 1.5 mi (2.4 km) southwest of Georgia Plains.

DRAINAGE AREA.--8.45 mi² (21.89 km²).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (46 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 7.56 ft³/s (0.214 m³/s), 12.15 in/yr (309 mm/yr).

EXTREMES.--Current year: Maximum discharge, 151 ft³/s (4.28 m³/s) June 13 (gage height, 4.84 ft or 1.475 m), from rating curve extended above 75 ft³/s (2.12 m³/s); maximum gage height, 5.31 ft (1.618 m) Jan. 20 (backwater from ice); minimum discharge, 1.7 ft³/s (0.048 m³/s) Oct. 6.

Period of record: Maximum discharge, 264 ft³/s (7.48 m³/s) May 20, 1969 (gage height, 5.54 ft or 1.689 m), from rating curve extended above 75 ft³/s (2.12 m³/s); maximum gage height, 6.01 ft (1.832 m) Jan. 26, 1964 (backwater from ice); minimum discharge, 0.22 ft³/s (0.006 m³/s) Aug. 5, 1965.

REMARKS.--Records good except those for winter period, which are poor. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	5.9	10	17	6.0	2.5	12	8.9	9.6	45	4.2	4.2
2	2.6	5.1	9.3	20	10	2.5	89	7.8	16	14	5.5	3.7
3	2.5	6.4	8.2	15	25	2.5	80	16	9.9	8.8	15	3.4
4	2.3	6.9	7.3	11	15	9.0	32	28	11	13	9.0	3.5
5	2.1	6.2	7.4	9.0	9.0	14	108	15	22	7.9	7.6	2.9
6	1.9	8.4	25	6.5	6.5	13	64	11	12	6.3	6.9	9.0
7	2.9	5.8	36	5.6	5.0	20	27	8.4	11	5.3	13	12
8	9.4	7.1	22	5.3	4.3	75	16	6.5	9.0	4.7	8.5	6.7
9	6.5	16	14	4.9	3.9	50	12	8.1	5.3	3.9	6.7	4.5
10	5.3	18	10	4.5	3.6	25	13	8.7	4.3	3.5	16	3.7
11	3.6	8.8	8.7	4.2	3.4	30	16	16	4.7	4.3	22	3.4
12	2.9	4.9	8.3	4.0	3.3	83	13	21	33	3.8	9.3	3.4
13	3.6	6.2	12	3.8	3.2	65	11	22	86	6.6	6.5	5.5
14	3.4	4.4	9.0	3.6	3.1	30	9.5	12	24	6.4	5.2	3.2
15	3.5	4.4	8.0	3.5	3.0	20	8.0	8.7	11	12	4.2	9.0
16	3.9	5.2	7.3	3.7	2.9	22	7.1	9.6	50	20	3.6	8.4
17	3.2	4.4	6.8	4.0	2.9	43	6.8	7.0	79	8.9	3.2	6.2
18	3.7	4.1	6.4	7.0	2.8	78	5.8	6.5	21	5.3	5.4	36
19	3.4	4.2	6.2	15	2.8	34	5.2	13	12	3.9	29	53
20	3.1	4.7	6.0	30	3.0	19	5.3	17	8.4	3.2	64	16
21	3.4	5.3	6.0	21	2.9	15	4.9	41	7.0	3.3	19	9.6
22	3.3	4.7	6.0	18	2.8	14	9.5	72	9.7	3.0	11	9.9
23	4.9	4.2	6.2	35	2.7	11	8.4	29	11	2.8	10	25
24	8.8	4.0	6.4	25	2.6	9.7	6.5	13	11	2.4	6.0	16
25	8.1	4.7	6.4	19	2.6	8.2	5.6	8.7	8.6	2.5	3.7	11
26	6.4	26	6.0	15	2.6	8.5	4.9	7.0	6.7	5.4	3.4	8.4
27	4.7	55	5.4	12	2.5	8.7	4.5	6.0	5.2	7.8	3.4	6.5
28	4.5	28	4.6	11	2.5	6.9	9.6	9.6	4.4	9.2	34	5.1
29	8.6	22	4.2	9.0	------	6.5	30	18	4.9	20	20	4.5
30	8.9	13	4.0	7.5	------	7.3	14	15	66	9.3	8.7	4.9
31	6.9	------	6.0	6.5	------	6.6	------	9.6	------	5.7	5.3	------
TOTAL	140.7	304.0	289.1	356.6	139.9	739.9	638.6	480.1	573.7	258.2	369.3	298.6
MEAN	4.54	10.1	9.33	11.5	5.00	23.9	21.3	15.5	19.1	8.33	11.9	9.95
MAX	9.4	55	36	35	25	83	108	72	86	45	64	53
MIN	1.9	4.0	4.0	3.5	2.5	2.5	4.5	6.0	4.3	2.4	3.2	2.9
CFSM	.54	1.20	1.10	1.36	.59	2.83	2.52	1.83	2.26	.99	1.41	1.18
IN.	.62	1.34	1.27	1.57	.62	3.26	2.81	2.11	2.53	1.14	1.63	1.31

CAL YR 1972 TOTAL 3,808.9 MEAN 10.4 MAX 122 MIN 1.6 CFSM 1.23 IN 16.77
WTR YR 1973 TOTAL 4,588.7 MEAN 12.6 MAX 108 MIN 1.9 CFSM 1.49 IN 20.20

PEAK DISCHARGE (BASE, 75 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-8	-	-	†80	6-13	0145	4.84	151
3-12	1630	4.51	110	6-17	0015	4.74	137
3-18	0200	4.67	128	6-30	1930	4.50	109
4-2	2315	4.57	117	8-20	0745	4.39	97
4-5	0800	4.81	146	9-18	2345	4.44	102
5-22	0615	4.23	81				

† About.

04293000 Missisquoi River near North Troy, Vt.

LOCATION.--Lat 44°58'22", long 72°23'15", Orleans County, on right bank 200 ft (60 m) upstream from Big Falls, 1.5 mi (2.4 km) downstream from Jay Branch, and 2.2 mi (3.5 km) upstream from North Troy.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--August 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 580 ft (177 m) from topographic map.

AVERAGE DISCHARGE.--42 years, 265 ft³/s (7.505 m³/s), 27.47 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,510 ft³/s (156 m³/s) July 1 (gage height, 10.66 ft or 3.249 m); minimum, 34 ft³/s (0.96 m³/s) Oct. 4; minimum daily, 37 ft³/s (1.05 m³/s) Oct. 4, 6.

Period of record: Maximum discharge, 7,980 ft³/s (226 m³/s) May 3, 1940 (gage height, 12.87 ft or 3.923 m), from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of computation of flow over dam at gage height 11.70 ft (3.566 m); minimum, 9.4 ft³/s (0.27 m³/s) Aug. 28, 1949; minimum daily, 11 ft³/s (0.31 m³/s) Aug. 28, 1949, Aug. 30, 1953.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation at low flow caused by small powerplant above station; greater regulation prior to 1967.

REVISIONS (WATER YEARS).--WSP 924: 1940. WSP 1114: 1933(M), 1936-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	123	172	640	185	110	1,150	382	844	3,980	80	45
2	55	108	140	466	220	110	2,100	327	632	890	99	41
3	46	187	130	307	650	110	1,040	370	370	439	199	40
4	37	322	110	230	600	140	787	659	291	357	129	40
5	39	192	120	170	410	250	1,000	375	323	314	112	38
6	37	164	700	140	260	220	684	321	597	217	91	1,110
7	45	163	669	115	260	200	524	272	326	169	91	473
8	189	183	300	105	220	900	456	230	236	141	80	163
9	127	821	260	120	180	1,170	372	242	191	119	91	103
10	96	702	210	160	160	638	352	282	196	108	81	84
11	67	371	150	145	160	512	313	359	149	150	135	76
12	72	269	130	125	160	2,130	278	539	1,070	125	105	73
13	116	241	230	110	172	2,540	263	593	1,300	105	75	64
14	89	203	280	100	170	1,010	279	361	516	109	67	60
15	156	171	200	100	156	782	420	283	329	107	63	134
16	146	142	170	100	148	1,300	810	589	1,330	134	60	124
17	157	100	145	90	139	1,750	1,490	363	2,160	104	55	88
18	149	98	160	170	135	3,060	1,270	278	553	86	51	658
19	99	95	155	310	139	994	1,120	377	348	91	49	753
20	82	100	150	700	135	572	906	451	269	126	46	256
21	74	120	145	650	135	422	703	1,540	224	89	44	229
22	72	110	140	480	130	358	1,100	3,040	412	75	49	242
23	116	110	135	640	125	305	1,130	963	298	69	46	533
24	327	102	135	800	125	306	595	512	263	68	42	276
25	273	102	135	430	120	328	421	369	222	75	39	225
26	165	624	140	320	120	504	343	297	178	90	38	156
27	123	633	135	260	115	570	284	249	146	310	40	122
28	103	405	115	235	110	405	398	313	127	361	144	125
29	307	265	110	210	------	419	912	500	146	177	85	104
30	272	216	110	190	------	483	524	514	2,260	107	58	90
31	160	------	170	175	------	803	------	898	------	86	49	------
TOTAL	3,854	7,442	6,051	8,793	5,639	23,401	22,024	16,849	16,306	9,378	2,393	6,525
MEAN	124	248	195	284	201	755	734	544	544	303	77.2	218
MAX	327	821	700	800	650	3,060	2,100	3,040	2,260	3,980	199	1,110
MIN	37	95	110	90	110	110	263	230	127	68	38	38
CFSM	.95	1.89	1.49	2.17	1.53	5.76	5.60	4.15	4.15	2.31	.59	1.66
IN.	1.09	2.11	1.72	2.50	1.60	6.65	6.25	4.78	4.63	2.66	.68	1.85

CAL YR 1972 TOTAL 101,061 MEAN 276 MAX 3,550 MIN 35 CFSM 2.11 IN 28.70
WTR YR 1973 TOTAL 128,655 MEAN 352 MAX 3,980 MIN 37 CFSM 2.69 IN 36.53

PEAK DISCHARGE (BASE, 3,300 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0815	8.53	3,550				
5-22	0415	8.75	3,740				
6-12	1830	8.24	3,300				
7-1	0415	10.66	5,510				

04293500 Missisquoi River near Richford, Vt.

LOCATION.--Lat 44°57'30", long 72°41'55", Franklin County, on left bank 1.7 mi (2.7 km) upstream from Trout River, 3 mi (4.8 km) south of Richford, and 3.8 mi (6.1 km) downstream from North Branch.

DRAINAGE AREA.--479 mi² (1,241 km²).

PERIOD OF RECORD.--July 1911 to September 1923, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Altitude of gage is 410 ft (125 m) from topographic map. Prior to Aug. 1, 1915, nonrecording gage at site 0.2 mi (0.3 km) downstream at datum 4.35 ft (1.326 m) lower. Aug. 1, 1915, to Sept. 30, 1923, water-stage recorder at present site and datum. Oct. 1, 1928, to Sept. 30, 1929, nonrecording gage at former site at datum 4.6 ft (1.40 m) lower.

AVERAGE DISCHARGE.--57 years, 908 ft³/s (25.71 m³/s), 25.74 in/yr (654 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,450 ft³/s (268 m³/s) July 2 (gage height, 11.28 ft or 3.438 m); maximum gage height not determined (ice jam about Mar. 9 during period of no gage-height record); minimum discharge, 106 ft³/s (3.00 m³/s) Oct. 6, 7.

Period of record: Maximum discharge, 17,200 ft³/s (487 m³/s) May 4, 1940 (gage height, 15.15 ft or 4.618 m), from rating curve extended above 9,300 ft³/s (263 m³/s) on basis of computation of peak flow over dam at gage height 14.70 ft (4.481 m), slope-area measurement at gage height 12.90 ft (3.932 m), and study of discharge per foot of width at measuring section; maximum gage height, 18.92 ft (5.767 m) Mar. 15, 1946 (ice jam); minimum discharge observed, 8 ft³/s (0.23 m³/s) July 14, 1911.

Maximum discharge since at least 1830, 45,000 ft³/s (1,270 m³/s) during flood of November 1927 (gage height, 23.1 ft or 7.04 m, from floodmarks), from rating curve extended above 9,300 ft³/s (263 m³/s) as explained above.

REMARKS.--Records good except those for winter period, which are fair. Diurnal fluctuation at low flow prior to 1934. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 784: Drainage area. WSP 1237: 1913-14(M), 1922(M), 1923, 1929-30. WSP 1307: 1916(M). WSP 1437: 1912.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	499	800	1,500	700	400	2,800	1,570	2,970	7,950	282	173
2	153	442	650	1,400	800	430	4,250	1,240	2,100	7,690	316	158
3	149	541	550	1,100	2,100	450	4,510	1,170	1,400	4,000	344	141
4	134	768	480	800	1,900	560	3,300	1,700	1,010	2,080	401	129
5	119	645	450	660	1,300	900	3,140	1,510	939	2,010	356	118
6	110	581	2,200	540	1,000	800	3,010	1,210	1,140	1,300	299	1,390
7	120	565	2,500	490	900	900	2,310	1,020	1,030	875	290	2,180
8	317	710	1,500	480	800	2,000	1,980	826	726	608	257	831
9	421	2,470	1,100	550	740	3,000	1,620	810	566	463	548	444
10	309	2,850	900	600	670	2,500	1,430	965	508	398	447	338
11	248	1,840	700	540	640	2,200	1,320	1,120	438	453	593	288
12	222	1,340	600	480	620	5,000	1,140	2,020	1,050	452	453	261
13	279	1,100	800	430	620	7,000	1,040	2,360	3,080	379	338	226
14	287	902	900	400	620	6,000	1,020	1,810	2,120	351	269	200
15	337	728	700	380	620	4,500	1,240	1,270	1,040	338	239	223
16	411	598	600	360	560	4,610	1,830	1,910	1,760	348	221	298
17	388	450	540	350	520	5,920	2,830	1,810	3,980	335	199	263
18	407	420	560	380	500	8,880	3,300	1,210	3,390	288	180	1,010
19	336	400	550	700	540	7,210	2,990	1,490	1,440	258	166	2,300
20	276	400	540	2,200	560	3,950	2,590	1,950	913	310	156	1,350
21	244	430	520	2,400	520	2,310	2,010	3,440	835	389	148	884
22	230	420	500	1,700	500	1,790	2,050	7,140	1,490	322	138	853
23	367	410	490	2,300	480	1,440	2,640	6,630	1,080	257	140	3,240
24	1,060	400	490	2,700	460	1,340	1,970	3,810	1,390	223	130	1,870
25	1,030	400	480	1,800	440	1,350	1,320	2,040	1,110	202	118	1,080
26	725	650	480	1,400	430	1,670	1,040	1,430	934	236	110	785
27	549	2,000	470	1,200	410	1,950	849	1,080	683	264	110	579
28	447	2,170	460	1,000	400	1,670	844	1,030	528	314	248	488
29	828	1,800	450	900	------	1,570	2,280	1,650	490	884	342	453
30	1,020	1,200	440	800	------	1,630	2,280	2,100	3,610	648	247	383
31	662	------	440	740	------	2,120	------	1,810	------	366	204	------
TOTAL	12,342	28,129	22,840	31,280	20,350	86,050	64,933	61,131	43,750	34,991	8,289	22,936
MEAN	398	938	737	1,009	727	2,776	2,164	1,972	1,458	1,129	267	765
MAX	1,060	2,850	2,500	2,700	2,100	8,880	4,510	7,140	3,980	7,950	593	3,240
MIN	110	400	440	350	400	400	844	810	438	202	110	118
CFSM	.83	1.96	1.54	2.11	1.52	5.80	4.52	4.12	3.04	2.36	.56	1.60
IN.	.96	2.18	1.77	2.43	1.58	6.68	5.04	4.75	3.40	2.72	.64	1.78

CAL YR 1972 TOTAL 362,481 MEAN 990 MAX 10,600 MIN 108 CFSM 2.07 IN 28.15
WTR YR 1973 TOTAL 437,021 MEAN 1,197 MAX 8,880 MIN 110 CFSM 2.50 IN 33.94

PEAK DISCHARGE (BASE, 7,600 ft³/s)

NOTE.--No gage-height record Mar. 8-10.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0530	11.17	9,270				
5-22	1330	10.13	7,700				
7-2	0100	11.28	9,450				

04294500 Lake Champlain at Burlington, Vt.

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, 50 ft (15 m) south of Gulf Oil Co. dock at Burlington, 0.1 mi (0.2 km) north of Burlington Water Department pumping station, and 0.5 mi (0.8 km) north of railroad station.

PERIOD OF RECORD.--May 1907 to current year.

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft (28.304 m) above mean sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mi (1.1 km) south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mi (0.2 km) south, both at present datum.

EXTREMES.--Current year: Maximum gage height, 7.60 ft (2.316 m) Apr. 7, affected by seiche; minimum, 1.96 ft (0.597 m) Oct. 21, affected by seiche.
Period of record: Maximum gage height observed, 8.65 ft (2.637 m) Mar. 27, 28, 1936; minimum observed, -0.25 ft (-0.076 m) Dec. 4, 1908.

REVISIONS (WATER YEARS).--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.46	2.04	3.69	4.20	5.05	4.31	6.55	6.18	6.15	6.06	4.67	3.23
2	2.42	2.03	3.69	4.34	5.05	4.27	6.77	6.08	6.16	6.31	4.60	3.19
3	2.39	2.11	3.72	4.43	5.17	4.20	7.05	6.04	6.12	6.39	4.60	3.16
4	2.37	2.12	3.71	4.44	5.33	4.17	7.19	6.02	6.09	6.39	4.58	3.12
5	2.33	2.14	3.70	4.51	5.42	4.20	7.39	5.99	6.05	6.40	4.51	3.08
6	2.28	2.19	3.68	4.53	5.46	4.22	7.51	5.94	6.02	6.39	4.43	3.05
7	2.32	2.19	3.85	4.52	5.43	4.24	7.57	5.87	5.98	6.32	4.40	3.08
8	2.36	2.23	3.90	4.48	5.43	4.40	7.56	5.75	5.95	6.24	4.37	3.09
9	2.37	2.47	4.09	4.45	5.42	4.70	7.51	5.66	5.90	6.19	4.33	3.04
10	2.37	2.73	4.14	4.43	5.37	4.90	7.48	5.62	5.82	6.13	4.27	2.97
11	2.29	2.85	4.16	4.38	5.33	4.99	7.41	5.60	5.75	6.07	4.24	2.90
12	2.26	2.94	4.14	4.35	5.29	5.15	7.34	5.60	5.74	5.99	4.20	2.87
13	2.31	2.99	4.14	4.30	5.24	5.49	7.26	5.59	5.81	5.88	4.17	2.84
14	2.23	3.05	4.21	4.25	5.17	5.76	7.17	5.56	5.88	5.79	4.11	2.81
15	2.23	3.08	4.26	4.21	5.15	5.85	7.06	5.52	5.85	5.75	4.03	2.81
16	2.12	3.05	4.32	4.16	5.12	5.96	6.96	5.48	5.87	5.73	3.99	2.75
17	2.10	3.04	4.30	4.12	5.05	6.16	6.90	5.43	5.98	5.66	3.94	2.73
18	2.13	3.04	4.24	4.08	4.97	6.59	6.88	5.43	6.03	5.58	3.88	2.75
19	2.12	3.03	4.28	4.07	4.90	6.96	6.85	5.42	6.02	5.49	3.85	2.82
20	2.09	3.07	4.28	4.28	4.85	7.10	6.82	5.47	5.95	5.41	3.80	2.84
21	2.01	3.08	4.25	4.44	4.81	7.13	6.73	5.64	5.90	5.34	3.73	2.85
22	2.00	3.09	4.29	4.53	4.76	7.13	6.57	5.94	5.95	5.27	3.68	2.80
23	2.02	3.06	4.28	4.68	4.70	7.08	6.67	6.19	5.98	5.19	3.63	2.87
24	2.05	3.02	4.26	4.90	4.63	7.00	6.64	6.29	6.01	5.09	3.57	2.93
25	2.05	3.00	4.25	5.05	4.57	6.93	6.56	6.30	6.01	5.01	3.49	2.96
26	2.03	3.07	4.21	5.12	4.51	6.90	6.49	6.27	5.95	4.96	3.43	2.95
27	2.02	3.28	4.21	5.16	4.45	6.88	6.40	6.19	5.85	4.89	3.38	2.91
28	1.99	3.48	4.20	5.15	4.38	6.78	6.34	6.12	5.76	4.83	3.41	2.90
29	2.06	3.59	4.17	5.17	------	6.67	6.30	6.15	5.70	4.83	3.38	2.89
30	2.07	3.63	4.15	5.15	------	6.63	6.25	6.16	5.78	4.80	3.32	2.87
31	2.08	------	4.11	5.10	------	6.57	------	6.15	------	4.74	3.29	------
MEAN	2.19	2.82	4.10	4.55	5.04	5.78	6.94	5.86	5.93	5.65	3.98	2.94
MAX	2.46	3.63	4.32	5.17	5.46	7.13	7.57	6.30	6.16	6.40	4.67	3.23
MIN	1.99	2.03	3.68	4.07	4.38	4.17	6.25	5.42	5.70	4.74	3.29	2.73

CAL YR 1972 MEAN 4.00 MAX 8.57 MIN 1.99
WTR YR 1973 MEAN 4.64 MAX 7.57 MIN 1.99

04295500 Lake Memphremagog at Newport, Vt.

LOCATION.--Lat 44°56'15", long 72°12'21", Orleans County, on west side of bridge on U.S. Highway 5 at Newport.

PERIOD OF RECORD.--May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.00 ft (205.130 m) above mean sea level. Prior to July 21, 1934, nonrecording gage on highway bridge 0.1 mi (0.2 km) southeast at same datum. July 21, 1934, to Aug. 22, 1961, nonrecording gage on east side, and Aug. 23, 1961, to Oct. 18, 1966, on west side of bridge at present site and datum.

EXTREMES.--Current year: Maximum gage height, 11.27 ft (3.435 m) July 2; minimum, 7.82 ft (2.384 m) about Mar. 7.
Period of record: Maximum gage height observed, 12.92 ft (3.938 m) Apr. 20, 1933; minimum recorded, 6.48 ft (1.975 m) Nov. 2, 1968 (affected by seiche), but may have been lower during period of use of nonrecording gage.

REMARKS.--Elevation of lake regulated by powerplant and gates at Magog, Quebec.

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.34	8.51	9.06	9.31	9.71	8.40	9.19	10.16	9.96	11.09	9.33	8.73
2	8.28	8.50	9.05	9.37	9.67	8.30	9.28	10.10	9.96	11.25	9.30	8.73
3	8.25	8.57	9.08	9.43	9.70	8.20	9.35	10.08	9.89	11.19	9.30	8.73
4	8.23	8.57	9.06	9.45	9.79	8.10	9.41	10.12	9.82	11.06	9.26	8.74
5	8.18	8.61	9.07	9.46	9.84	8.00	9.50	10.13	9.78	10.94	9.24	8.66
6	8.14	8.64	9.07	9.45	9.84	7.95	9.50	10.14	9.83	10.79	9.21	8.86
7	8.20	8.65	9.18	9.43	9.93	7.87	9.48	10.14	9.90	10.56	9.16	8.98
8	8.26	8.69	9.25	9.40	9.81	7.90	9.44	10.10	9.93	10.37	9.12	9.03
9	8.32	8.88	9.34	9.37	9.79	8.00	9.40	10.05	9.94	10.20	9.10	9.05
10	8.32	8.99	9.37	9.34	9.75	8.10	9.44	10.06	9.98	10.06	9.09	9.05
11	8.25	9.01	9.38	9.30	9.70	8.15	9.52	10.08	9.97	9.91	9.10	9.04
12	8.25	9.05	9.39	9.25	9.62	8.35	9.58	10.11	10.01	9.74	9.12	9.04
13	8.30	9.09	9.45	9.20	9.58	8.65	9.51	10.10	10.09	9.49	9.11	9.02
14	8.22	9.14	9.46	9.18	9.55	8.90	9.55	10.07	10.09	9.32	9.04	8.99
15	8.31	9.13	9.45	9.15	9.55	9.05	9.59	10.08	10.04	9.26	8.97	9.03
16	8.22	9.08	9.49	9.11	9.53	9.20	9.76	10.15	10.03	9.30	8.94	9.05
17	8.28	9.03	9.49	9.07	9.49	9.40	9.87	10.15	10.28	9.35	8.89	9.08
18	8.27	9.01	9.46	9.03	9.45	9.80	9.99	10.15	10.30	9.38	8.87	9.10
19	8.26	8.98	9.43	9.00	9.40	10.10	10.10	10.14	10.27	9.41	8.90	9.30
20	8.24	9.01	9.42	9.13	9.33	10.20	10.12	10.13	10.17	9.46	8.87	9.40
21	8.19	8.99	9.37	9.26	9.22	10.15	10.14	10.28	10.09	9.52	8.81	9.40
22	8.21	8.92	9.35	9.36	9.13	10.03	10.12	10.57	10.06	9.56	8.75	9.43
23	8.25	8.86	9.33	9.50	9.05	9.93	10.15	10.70	9.97	9.56	8.71	9.70
24	8.34	8.81	9.30	9.66	8.95	9.80	10.12	10.69	9.93	9.51	8.69	9.80
25	8.37	8.77	9.29	9.80	8.84	9.68	10.13	10.58	9.87	9.46	8.63	9.80
26	8.38	8.77	9.28	9.90	8.73	9.58	10.12	10.44	9.80	9.42	8.64	9.80
27	8.38	8.81	9.28	9.94	8.62	9.52	10.09	10.30	9.79	9.39	8.65	9.80
28	8.38	8.94	9.26	9.95	8.53	9.42	10.11	10.11	9.79	9.38	8.74	9.78
29	8.54	9.00	9.25	9.95	------	9.33	10.19	10.06	9.82	9.44	8.74	9.73
30	8.55	9.00	9.25	9.87	------	9.25	10.20	9.99	10.13	9.43	8.73	9.70
31	8.54	------	9.27	9.80	------	9.21	------	9.95	------	9.39	8.72	------
MEAN	8.30	8.87	9.30	9.43	9.43	8.98	9.78	10.19	9.98	9.88	8.96	9.22
MAX	8.55	9.14	9.49	9.95	9.84	10.20	10.20	10.70	10.30	11.25	9.33	9.80
MIN	8.14	8.50	9.05	9.00	8.53	7.87	9.19	9.95	9.78	9.26	8.63	8.56

CAL YR 1972 MEAN 8.72 MAX 11.65 MIN 6.58
WTR YR 1973 MEAN 9.36 MAX 11.25 MIN 7.87

NOTE.--No gage-height record Feb. 22 to Mar. 26.

04296000 Black River at Coventry, Vt.

LOCATION.--Lat 44°52'08", long 72°16'14", Orleans County, on right bank 15 ft (5 m) downstream from highway bridge, 800 ft (250 m) upstream from Stony Brook, and 0.4 mi (0.6 km) northwest of Coventry.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 725 ft (221 m) from topographic map.

AVERAGE DISCHARGE.--22 years, 194 ft^3/s (5.494 m^3/s), 21.59 in/yr (548 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,650 ft^3/s (103 m^3/s) June 30 (gage height, 7.85 ft or 2.393 m); minimum daily, 41 ft^3/s (1.16 m^3/s) Oct. 6.

Period of record: Maximum discharge, 3,650 ft^3/s (103 m^3/s) June 30, 1973 (gage height, 7.85 ft or 2.393 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Aug. 29 to Sept. 1, 1953.

REMARKS.--Records excellent. Occasional diurnal fluctuation at low flow by mill above station; greater regulation prior to 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	111	187	235	200	107	698	459	397	2,640	93	61
2	70	97	165	383	250	102	1,050	373	435	2,020	92	58
3	58	122	158	342	550	99	940	384	380	1,110	107	54
4	49	158	150	290	600	102	868	587	305	778	108	51
5	45	135	145	229	450	120	843	454	291	775	114	48
6	41	124	183	187	310	143	751	432	369	582	111	246
7	53	135	518	160	280	157	671	331	347	519	92	336
8	190	146	410	120	255	371	591	256	271	457	85	312
9	204	496	328	130	222	517	469	234	210	312	83	258
10	130	511	248	140	195	407	400	259	181	223	81	111
11	92	392	204	150	175	377	354	270	154	239	228	84
12	77	298	178	142	160	953	315	343	271	217	154	76
13	76	208	174	138	150	1,150	289	387	625	176	102	72
14	73	180	210	128	140	858	286	314	507	168	82	67
15	79	160	192	120	137	821	325	249	350	202	75	101
16	93	141	167	118	135	941	417	352	600	198	70	150
17	89	120	153	117	130	1,130	580	341	900	178	66	111
18	83	122	158	128	131	1,680	644	268	800	138	62	334
19	76	115	160	167	123	1,360	649	227	500	120	75	556
20	69	115	151	481	122	932	615	238	330	113	105	398
21	62	122	148	708	121	688	533	652	290	119	77	364
22	59	120	144	571	119	567	474	1,190	400	130	65	228
23	74	121	148	664	118	427	499	889	310	104	59	395
24	139	107	143	730	118	385	451	757	350	92	56	398
25	176	107	143	548	114	383	378	594	280	85	54	383
26	133	156	144	450	112	448	286	401	220	83	51	304
27	103	407	146	350	110	508	235	283	190	105	50	193
28	97	375	148	300	107	467	300	266	168	155	104	150
29	156	315	139	250	------	452	663	363	180	221	104	133
30	212	218	138	210	------	452	514	379	1,750	189	81	119
31	151	------	127	190	------	558	------	379	------	122	66	------
TOTAL	3,059	5,934	5,807	8,876	5,634	17,662	16,088	12,911	12,361	12,570	2,752	6,151
MEAN	98.7	198	187	286	201	570	536	416	412	405	88.8	205
MAX	212	511	518	730	600	1,680	1,050	1,190	1,750	2,640	228	556
MIN	41	97	127	117	107	99	235	227	154	83	50	48
CFSM	.81	1.62	1.53	2.34	1.65	4.67	4.39	3.41	3.38	3.32	.73	1.68
IN.	.93	1.81	1.77	2.71	1.72	5.39	4.91	3.94	3.77	3.83	.84	1.88

CAL YR 1972 TOTAL 80,017 MEAN 219 MAX 2,650 MIN 37 CFSM 1.80 IN 24.40

WTR YR 1973 TOTAL 109,805 MEAN 301 MAX 2,640 MIN 41 CFSM 2.47 IN 33.48

PEAK DISCHARGE (BASE, 1,700 ft^3/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0345	6.26	1,810				
6-30	2145	7.85	3,650				

04296200 Brownington Branch near Evansville, Vt.

LOCATION.--Lat 44°50'02", long 72°04'00", Orleans County, on right bank 10 ft (3 m) upstream from culvert on State Highway 5A, 0.5 mi (0.8 km) upstream from Moody Brook, and 4 mi (6 km) northeast of Evansville.

DRAINAGE AREA.--2.15 mi² (5.57 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,170 ft (357 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 3.38 ft³/s (0.096 m³/s), 21.35 in/yr (542 mm/yr).

EXTREMES.--Current year: Maximum discharge, 161 ft³/s (4.56 m³/s) June 30 (gage height, 7.74 ft or 2.359 m), from rating curve extended as explained below; no flow Aug. 25-27.

Period of record: Maximum discharge, 161 ft³/s (4.56 m³/s) June 30, 1973 (gage height, 7.74 ft or 2.359 m), from rating curve extended above 89 ft³/s (2.52 m³/s) on basis of computation of flow through culvert at gage height 6.67 ft (2.033 m); no flow at times in water years 1966, 1968-71, 1973.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Recording rain gage at station since April 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1968: 1967(M).

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	1.1	5.1	12	2.2	.51	22	5.8	3.6	22	.14	.10
2	.15	1.2	4.3	9.0	5.0	.50	22	4.1	3.8	7.4	.28	.08
3	.15	1.5	4.3	7.3	17	.55	11	11	2.0	3.8	.39	.08
4	.12	1.6	3.9	5.5	15	.80	10	13	1.6	2.9	.24	.08
5	.12	2.0	4.0	3.9	7.0	1.5	9.9	6.4	1.6	3.8	.45	.07
6	.10	1.7	11	3.0	4.5	1.0	6.2	5.5	1.3	2.4	.20	15
7	3.6	1.5	16	2.3	3.5	3.0	4.9	4.0	.88	1.5	.17	7.0
8	7.3	3.0	7.5	1.8	2.7	10	3.9	3.0	.39	.96	.10	4.0
9	2.8	15	5.7	2.0	2.1	8.0	3.4	2.8	1.6	.73	.14	2.5
10	1.4	12	4.2	2.5	1.7	6.5	3.1	2.9	.59	.52	.52	1.1
11	.80	10	3.0	2.1	1.4	5.5	2.8	3.9	.17	1.2	2.1	.70
12	1.1	7.5	3.0	1.8	1.2	20	2.4	7.4	7.4	.59	.59	.45
13	.90	5.5	3.3	1.5	1.0	12	2.1	6.2	9.3	.39	.33	.28
14	1.1	4.5	2.8	1.2	.88	8.0	2.4	3.9	5.5	.52	.24	.24
15	1.3	3.9	2.4	1.0	.80	7.0	4.6	3.0	3.1	.28	.20	2.0
16	1.3	3.4	2.5	.94	.76	15	14	8.7	33	.20	.14	1.1
17	1.0	3.2	2.3	.80	.72	41	21	4.4	16	.17	.12	.73
18	.85	3.1	2.4	2.0	.68	33	11	3.4	4.6	.12	.10	28
19	.78	3.0	1.9	9.0	.66	9.9	8.4	6.2	2.2	.12	.10	11
20	.73	3.0	1.8	20	.63	5.9	5.9	6.1	1.2	.59	.09	5.3
21	.66	3.0	1.7	18	.60	4.9	4.9	40	1.9	.80	.07	4.3
22	.80	2.8	1.9	14	.58	4.0	4.7	45	5.8	.24	.05	4.7
23	1.6	2.5	1.7	18	.57	3.6	4.3	11	4.3	.14	.03	6.2
24	2.0	2.5	1.7	19	.56	3.6	3.2	5.8	1.8	.10	.01	4.4
25	1.7	2.5	1.8	12	.55	4.1	2.6	4.0	1.4	.07	0	3.5
26	1.2	8.7	1.9	8.5	.54	8.4	2.3	2.9	1.9	.08	0	2.8
27	1.0	12	1.9	6.5	.53	7.8	2.0	2.2	.66	.24	0	2.3
28	1.2	10	1.9	5.0	.52	5.6	5.2	3.1	.59	.66	6.1	2.3
29	1.7	9.1	1.7	3.8	------	5.5	13	4.6	2.8	1.4	.24	1.9
30	1.5	6.0	1.6	3.1	------	9.1	9.5	3.8	97	.39	.14	2.0
31	1.2	------	2.4	2.5	------	17	------	4.1	------	.17	.20	------
TOTAL	40.34	146.8	111.6	200.04	73.88	263.26	222.7	238.2	217.98	54.48	13.48	114.21
MEAN	1.30	4.89	3.60	6.45	2.64	8.49	7.42	7.68	7.27	1.76	.43	3.81
MAX	7.3	15	16	20	17	41	22	45	97	22	6.1	28
MIN	.10	1.1	1.6	.80	.52	.50	2.0	2.2	.17	.07	0	.07
CFSM	.60	2.27	1.67	3.00	1.23	3.95	3.45	3.57	3.38	.82	.20	1.77
IN.	.70	2.54	1.93	3.46	1.28	4.56	3.85	4.12	3.77	.94	.23	1.98

CAL YR 1972 TOTAL 1.263.44 MEAN 3.45 MAX 70 MIN .04 CFSM 1.60 IN 21.86
WTR YR 1973 TOTAL 1.696.97 MEAN 4.65 MAX 97 MIN 0 CFSM 2.16 IN 29.36

PEAK DISCHARGE (BASE, 80 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	1830	5.69	88				
5-22	0130	5.68	88				
6-16	1715	5.72	89				
6-30	1130	7.74	161				

NOTE.--No gage-height record Oct. 9 to Nov. 20, Jan. 22 to Feb. 15.

04296500 Clyde River at Newport, Vt.

LOCATION.--Lat 44°56'22", long 72°11'23", Orleans County, on right bank in Newport, just downstream from small right-bank tributary and 1 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--142 mi² (368 km²).

PERIOD OF RECORD.--May 1909 to September 1919, May 1920 to August 1922, October 1922 to September 1924, November 1928 to May 1936, September 1938 to current year. Prior to November 1928, published as "at West Derby."

GAGE.--Water-stage recorder and, since Mar. 6, 1957, records of power generation. Datum of gage is 682.36 ft (207.983 m) above mean sea level. May 25, 1909, to Sept. 20, 1915, nonrecording gage, and Sept. 21, 1915, to Sept. 30, 1924, Nov. 16, 1928, to May 4, 1936, water-stage recorder, at site 0.65 mi (1.05 km) upstream at different datum.

AVERAGE DISCHARGE.--54 years (1909-19, 1920-21, 1922-24, 1929-35, 1938-73), 253 ft³/s (7.165 m³/s), 24.20 in/yr (615 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 1,520 ft³/s (43.0 m³/s) July 2, 3; minimum daily, 35 ft³/s (0.99 m³/s) Oct. 4, 22.
Period of record: Maximum discharge, 3,900 ft³/s (110 m³/s) Mar. 20, 1936 (gage height, 5.76 ft or 1.756 m, site and datum then in use), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of computation of peak flow over dam; minimum daily, 2.6 ft³/s (0.074 m³/s) on basis of computation of peak flow over dam; minimum daily, 2.6 ft³/s (0.074 m³/s) June 18, 1956.

REMARKS.--Records fair. Flow regulated by powerplant and reservoirs above station and, since Mar. 6, 1957, by diversion around station through canal and penstock of powerplant below station. Diversion computed from relation of kilowatt-hour output and measured discharge; discharge computed by adding flow over control to flow diverted through powerplant.

COOPERATION.--Records of power generation furnished by Citizens Utilities Co.

REVISIONS (WATER YEARS).--WSP 744: 1913(M), drainage area. WSP 924: 1940. WSP 1307: 1913-15(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	179	238	119	285	189	593	478	501	1,280	204	47
2	48	199	215	248	390	213	692	449	491	1,520	219	37
3	44	59	234	256	420	137	812	458	482	1,520	215	37
4	35	175	202	288	380	148	871	462	480	1,310	147	141
5	42	178	217	283	340	224	839	462	472	1,070	54	149
6	85	184	239	265	420	219	807	458	464	856	196	110
7	36	185	240	210	420	218	712	447	455	675	206	198
8	62	180	261	260	420	261	642	437	445	594	215	83
9	83	275	305	250	395	370	579	426	426	540	239	124
10	162	274	294	240	390	368	542	418	407	497	203	197
11	154	228	297	220	381	373	512	418	394	453	77	208
12	228	291	294	220	301	443	487	368	349	411	112	196
13	146	345	264	120	280	676	462	419	319	302	104	220
14	99	301	255	40	260	727	449	391	356	179	94	196
15	45	261	242	205	260	779	435	357	284	156	88	231
16	179	228	234	210	276	862	434	359	274	205	105	37
17	144	220	237	215	230	911	432	357	408	249	130	169
18	146	150	232	215	94	1,100	458	356	407	[illegible]	110	191
19	103	135	212	190	275	1,140	484	356	428	232	93	270
20	102	221	207	265	210	1,120	560	358	446	234	111	298
21	152	184	209	265	195	1,050	689	370	440	75	108	295
22	35	185	212	275	232	941	732	545	442	211	138	300
23	157	38	125	380	239	835	732	676	427	210	137	290
24	154	173	130	410	118	753	719	748	440	191	81	329
25	160	110	206	420	85	682	721	758	534	155	36	338
26	174	163	193	420	313	641	659	679	585	160	57	326
27	208	226	210	420	200	616	600	587	532	174	162	317
28	162	209	223	420	129	584	555	523	484	151	80	305
29	174	234	230	420	------	562	514	497	467	82	188	309
30	146	284	180	410	------	561	502	490	731	242	172	303
31	200	------	86	390	------	568	------	489	------	202	89	------
TOTAL	3,714	6,074	6,923	8,549	7,938	18,291	18,225	14,572	13,370	14,399	4,150	6,251
MEAN	120	202	223	276	284	590	608	470	446	464	134	208
MAX	228	345	305	420	420	1,140	871	758	731	1,520	239	338
MIN	35	38	86	40	85	137	432	356	274	75	36	37
CFSM	.85	1.42	1.57	1.94	2.00	4.15	4.28	3.31	3.14	3.27	.94	1.46
IN.	.97	1.59	1.81	2.24	2.08	4.79	4.77	3.82	3.50	3.77	1.09	1.64

CAL YR 1972 TOTAL 97,972 MEAN 268 MAX 2,510 MIN 34 CFSM 1.89 IN 25.67
WTR YR 1973 TOTAL 122,456 MEAN 335 MAX 1,520 MIN 35 CFSM 2.36 IN 32.08

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second, a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Merrimack River basin				
01094020	Naticook Brook near Merrimack, N.H.	Lat 42°50'26", long 71°29'56", Hillsborough County, at culvert on Amherst Rd., 1.5 mi southeast of Merrimack and 0.5 mi west of Thorntons Ferry.	2.23	1964-65, 1967-68, 1970-73	8-23-73	0.20
01094150	Witches Brook near Ponemah, N.H.	Lat 42°47'35", long 71°35'59", Hillsborough County, at bridge on State Highway 122, 2.2 mi south of Ponemah.	4.28	1964-65, 1967-68, 1970-73	8-23-73	1.5
01094350	Flag Brook near Westminster, Mass.	Lat 42°32'07", long 71°51'01", Worcester County, at access road to Fitchburg municipal dump, 0.5 mi above Sawmill Road, 3 mi east of Westminster.	1.28	1971-73	10- 6-72	.81
					9-11-73	.71
					9-13-73	.60
01094430	Falulah Brook at Fitchburg, Mass.	Lat 42°35'22", long 71°46'54", Worcester County, at bridge on Pearl St., 0.4 mi east of State Teachers College, Fitchburg.	a12.0	1972-73	10- 5-72	.83
					9-11-73	.61
					9-13-73	.37
					9-14-73	.35
01094460	Monoosnoc Brook at Leominster, Mass.	Lat 42°31'47", long 71°45'08", Worcester County, at bridge on Whitney St., Leominster, 2,500 ft northeast of intersection of Mechanic St. and Main St.	11.0	1971-73	10- 6-72	1.4
					3-19-73b	c94
					7-30-73	4.2
					8-29-73	2.6
					8-31-73	2.4
					9-12-73	2.3
					9-14-73	2.0
01094480	Fall Brook at Leominster, Mass.	Lat 42°30'32", long 71°44'43", Worcester County, at culvert on Elm Hill Ave., Leominster, 2,200 ft above State Highway 117.	5.82	1971-73	10- 6-72	6.8
					3-19-73b	c51
					8-31-73	3.5
					9-12-73	2.7
					9-14-73	2.5
01094550	Wekepeke Brook near Lancaster, Mass.	Lat 42°29'19", long 71°42'51", Worcester County, at bridge on State Highway 117, 3 mi northwest of Lancaster.	11.5	1971-73	10- 5-72	4.7
					7-31-73	7.5
					8- 1-73	8.7
					8-29-73	4.4
					9-11-73	4.1
					9-13-73	4.2
					9-14-73	4.5
					9-14-73	4.4
01094750	Waushacum Brook near Sterling, Mass.	Lat 42°24'34", long 71°45'56", Worcester County, 300 ft below outlet of West Waushacum Pond, 2 mi south of Sterling.	4.98	1971-73	10- 5-72	.69
					9-11-73	.17
					9-13-73	.13
					9-14-73	.12
01094760	Waushacum Brook near West Boylston, Mass.	Lat 42°23'49", long 71°46'48", Worcester County, at culvert on Prescott St., 1.5 mi north of intersection of State Highways 12, 110, and 140, in West Boylston.	7.42	1971-73	10- 5-72	1.1
					3-19-73b	c46
					9-11-73	.48
					9-13-73	.37
					9-14-73	.37
01095050	Stillwater River at Moores Corners, near Sterling, Mass.	Lat 42°26'00", long 71°48'41", Worcester County, at bridge on State Highway 62, at Moores Corners, 2.5 mi west of Sterling.	25.7	1971-73	10- 5-72	3.7
					9-11-73	2.3
					9-13-73	1.9

a Adjusted for diversion to North Nashua River basin.
b Record of chemical analyses for this date in Part 2 of this report.
c May not be base flow.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Merrimack River basin--Continued				
01095220	Stillwater River near Sterling, Mass.	Lat 42°24'39", long 71°47'30", Worcester County, at bridge on Muddy Pond Rd., 2.5 mi southwest of Sterling.	30.3	1971-73	10- 5-72 3-19-73b 9-11-73 9-13-73	5.2 c275 3.8 3.5
01095330	Quinapoxet River near Holden, Mass.	Lat 42°22'50", long 71°51'23", Worcester County, at culvert on Mills St., 2 mi north of Holden Center.	21.8	1971-73	10- 6-72 9-12-73 9-14-73	.79 1.2 1.4
01095360	Asnebumskit Brook at Jefferson, Mass.	Lat 42°21'40", long 71°53'05", Worcester County, at culvert on State Highway 122A, at Jefferson, 1 mi west of Holden Center.	-	1971-73	10- 6-72 9-12-73	.75 .74
01095370	Asnebumskit Brook near Holden, Mass.	Lat 42°22'24", long 71°51'14", Worcester County, at culvert on Mills St., 1.5 mi north of Holden Center.	-	1971-73	10- 6-72	3.1
01095380	Trout Brook near Holden, Mass.	Lat 42°23'00", long 71°50'12", Worcester County, at culvert on Manning St., 2.2 mi north of Holden Center.	6.80	1971-73	10- 5-72 9-11-73 9-13-73 9-14-73	.96 .45 .43 .43
01095410	Malden Brook at Oakdale, Mass.	Lat 42°22'53", long 71°47'45", Worcester County, at culvert on Thomas St., Oakdale, 0.5 mi south of intersection of Thomas St. and State Highway 140.	1.26	1971-73	10- 5-72 9-11-73 9-13-73 9-14-73	.59 .83 .66 .86
01095430	Gates Brook at West Boylston, Mass.	Lat 42°21'29", long 71°46'44", Worcester County, at culvert on State Highway 140, at West Boylston, 0.2 mi south of intersection of State Highways 12 and 140.	2.80	1971-73	10- 6-72 9-12-73 9-14-73	.63 .60 .57
01095840	Catacoonamug Brook at Shirley, Mass.	Lat 42°32'38", long 71°39'25", Middlesex County, at culvert on Lancaster Rd., Shirley, 1 mi above mouth.	19.1	1971-73	10- 6-72 8- 1-73	5.3 8.5
01095880	Nonacoicus Brook near Ayer, Mass.	Lat 42°33'43", long 71°36'39", Middlesex County, 200 ft above mouth, 1.2 mi west of Ayer.	18.8	1971-73	10- 5-72 3-20-73b 8-28-73 9-12-73 9-13-73	3.4 c115 6.3 3.3 2.9
01095910	Mulpus Brook near Lunenburg, Mass.	Lat 42°35'46", long 71°40'15", Worcester County, at culvert on State Highway 225, 2.2 mi east of Lunenburg.	10.4	1971-73	10- 6-72 8-31-73 9-12-73 9-14-73	2.0 1.2 1.1 1.0
01095915	Mulpus Brook near Shirley, Mass.	Lat 42°34'26", long 71°34'43", Middlesex County, at culvert on State Highway 2A, 2.5 mi northeast of Shirley.	15.7	1971-73	10- 6-72 3-20-73b 8- 1-73 8-31-73 9-12-73	3.0 c128 5.4 2.3 2.0
01095930	Willard Brook near West Townsend, Mass.	Lat 42°40'27", long 71°46'14", Middlesex County, at culvert on State Highway 119, 1,500 ft west of intersection of State Highway 119 and Wheeler Rd., 1.5 mi west of West Townsend.	a12.3	1971-73	10- 5-72 9-11-73 9-13-73	1.5 1.8 1.6
01095940	Locke Brook at West Townsend, Mass.	Lat 42°40'42", long 71°45'31", Middlesex County, at culvert on West Meadow Rd., West Townsend, 0.5 mi above mouth.	4.20	1971-73	10- 5-72	d.04
01095950	Mason Brook near West Townsend, Mass.	Lat 42°42'05", long 71°45'10", Middlesex County, 2,200 ft south of New Hampshire State line and 2 mi northwest of West Townsend.	9.30	1971-73	10- 5-72 9-11-73 9-13-73	.16 .31 .21
01095960	Walker Brook near West Townsend, Mass.	Lat 42°42'07", long 71°46'06", Middlesex County, at culvert on State Highway 124, 2 mi northwest of West Townsend.	5.83	1971-73	9-11-73 9-13-73	.20 .15
01095970	Pearl Hill Brook near West Townsend, Mass.	Lat 42°39'40", long 71°45'13", Middlesex County, 1,800 ft below Pearl Hill Brook Pond, 1.5 mi southwest of West Townsend.	5.95	1971-73	10- 5-72	1.7
01095980	Squannacook River at Townsend, Mass.	Lat 42°39'45", long 71°42'33", Middlesex County, at bridge on Elm St., Townsend, 1,800 ft southwest of intersection of Main St. and Elm St.	a51.1	1971-73	10- 6-72 9-12-73 9-14-73	9.8 10 9.6

a Adjusted for diversion to North Nashua River basin.
b Record of chemical analyses for this date in Part 2 of this report.
c May not be base flow.
d Field estimate.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
Merrimack River basin--Continued						
01096200	James Brook near Ayer, Mass.	Lat 42°34'46", long 71°35'20", Middlesex County, at culvert on State Highway 111, 1.5 mi north of Ayer.	3.91	1971-73	10- 6-72 8-31-73 9-12-73 9-13-73 9-14-73	.61 .15 .13 .10 .11
01096300	Robinson Brook near Pepperell, Mass.	Lat 42°37'52", long 71°36'32", Middlesex County, at culvert on Shirley St., 2.5 mi southwest of Pepperell.	3.09	1971-73	8-31-73 9-11-73 9-13-73	.12 .21 .22
01096502	Nissitissit River near Hollis, N.H.	Lat 42°42'20", long 71°37'18", Hillsborough County, 500 ft above bridge on Pepperell Rd., 3 mi southwest of Hollis.	47.6	1971-73	10- 5-72 9-11-73 9-13-73	7.0 6.6 5.8
01096503	Nissitissit River at Pepperell, Mass.	Lat 42°40'19", long 71°34'39", Middlesex County, at bridge on Canal St., Pepperell, 4,000 ft above mouth.	59.6	1971-73	10- 5-72 3-22-73b 7-31-73 8-28-73 8-30-73 9-13-73	8.6 c303 30 10 9.5 8.5
01096504	Reedy Meadow Brook at East Pepperell, Mass.	Lat 42°40'03", long 71°33'55", Middlesex County, at culvert on Lowell Rd., East Pepperell, 2,000 ft above mouth.	1.94	1971-73	10- 5-72 8-31-73 9-13-73	.89 .60 .64
01096505	Unkety Brook near Pepperell, Mass.	Lat 42°41'23", long 71°32'54", Middlesex County, at culvert on River St., 2.5 mi northeast of Pepperell.	6.84	1971-73	10- 5-72 3-21-73b 7-31-73 8- 1-73 8-28-73 8-30-73	2.1 c27 3.6 3.2 2.3 1.4
*01100100	Richardson Brook near Lowell, Mass.	Lat 42°39'48", long 71°16'02", Middlesex County, at culvert on Methuen St., 3 mi northeast of Lowell.	4.32	1973	4-24-73b	5.6
01100200	Trull Brook near Lowell, Mass.	Lat 42°38'58", long 71°15'38", Middlesex County, at culvert on River Rd., 2.9 mi east of Lowell.	-	1973	4-24-73b	7.2
01100300	Fish Brook near Andover, Mass.	Lat 42°40'47", long 71°13'08", Essex County, at culvert on River Rd., 4.3 mi northwest of Andover.	-	1973	4-24-73b	5.6
01100400	Bartlett Brook near Methuen, Mass.	Lat 42°42'15", long 71°13'27", Essex County, at culvert on Lowell St., 2.4 mi southwest of Methuen.	-	1973	4-24-73b	8.1
01100565	Spicket River at Lawrence, Mass.	Lat 42°42'33", long 71°09'07", Essex County, at bridge on General St., at Lawrence.	-	1973	4-24-73b	103
01100570	Shawsheen River near Bedford, Mass.	Lat 42°28'25", long 71°15'52", Middlesex County, at bridge on Summer St., 1.3 mi southeast of Bedford.	-	1973	9-14-73	2.7
01100574	Elm Brook at Bedford, Mass.	Lat 42°29'13", long 71°15'52", Middlesex County, at culvert on Great Rd., 0.7 mi east of Bedford.	-	1973	8- 9-73 9-14-73	3.3 1.3
01100580	Spring Brook near Bedford, Mass.	Lat 42°29'39", long 71°15'23", Middlesex County, 200 ft above mouth and 500 ft below culvert on State Highway 62, 1.1 mi east of Bedford.	-	1973	9-14-73	.84
01100590	Vine Brook at Route 62, near Bedford, Mass.	Lat 42°30'04", long 71°14'49", Middlesex County, at culvert on State Highway 62, 1.7 mi northeast of Bedford.	-	1973	4-20-73b 9-14-73	15 2.3
01100603	Content Brook near Billerica, Mass.	Lat 42°34'45", long 71°13'31", Middlesex County, at culvert on Whipple Rd., 2.6 mi northeast of Billerica.	-	1973	9-27-73 9-28-73	3.6 3.7
01100606	Heath Brook near Tewksbury, Mass.	Lat 42°35'28", long 71°12'15", Middlex County, at culvert on Shawsheen St., 2.2 mi southeast of Tewksbury.	-	1973	9-27-73	1.3
01100608	Meadow Brook near Tewksbury, Mass.	Lat 42°37'14", long 71°12'44", Middlesex County, at culvert on Pinnacle St., 1.2 mi northeast of Tewksbury.	-	1973	8-10-73 9-28-73	1.7 .97
01100610	Strong Water Brook near Tewksbury, Mass.	Lat 42°35'46", long 71°11'47", Middlesex County, at culvert on Shawsheen St., 2.1 mi southeast of Tewksbury.	-	1973	4-20-73b 8-10-73 9-27-73	16 4.2 3.2
01100660	Bare Meadow Brook near Methuen, Mass.	Lat 42°45'32", long 71°08'05", Essex County, at culvert on Brookdale Ave., 3.8 mi northeast of Methuen.	-	1973	4-24-73b	7.9

* Also a crest-stage partial-record station.

b Record of chemical analyses for this date in Part 2 of this report.

c May not be base flow.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements Date	Measurements Discharge (ft³/s)
		Mystic River basin				
01102450	Halls Brook near Woburn, Mass.	Lat 42°30'50", long 71°08'46", Middlesex County, at culvert on New Boston St., 2.4 mi north of Woburn.	-	1973	6-11-73 6-14-73 8- 6-73 9-28-73	1.7 e4.7 2.7 .90
01102465	Aberjona River at Montvale Ave., near Woburn, Mass.	Lat 42°28'46", long 71°07'07", Middlwsex County, at bridge on Montvale Ave., 1.8 mi east of Woburn.	-	1973	6-12-73 6-14-73 8- 7-73	7.2 e21 e6.6
01102470	Sweetwater Brook at Stoneham, Mass.	Lat 42°28'45", long 71°06'44", Middlesex County, at culvert on Maple St., 0.6 mi west of Stoneham.	-	1973	6-11-73 6-14-73 8- 6-73 8- 9-73 9-28-73	.93 e1.2 1.0 .78 .22
01102480	Aberjona River at Swanton St., Winchester, Mass.	Lat 42°27'39", long 71°08'15", Middlesex County, 20 ft above bridge on Swanton St., 0.6 mi north of Winchester.	-	1973	6-12-73 6-14-73 8- 7-73	7.3 e22 e8.3
01102485	Cummings Brook near Woburn, Mass.	Lat 42°28'23", long 71°10'22", Middlesex County, at culvert on Lexington St., 1.1 mi west of Woburn.	-	1973	8- 9-73	2.7
01102490	Shaker Glen Brook near Woburn, Mass.	Lat 42°28'16", long 71°10'34", Middlesex County, at culvert on Lexington St., 1.3 mi west of Woburn.	-	1973	8- 9-73	2.2
		Weweantic River basin				
01105905	Sippican River near Marion, Mass.	Lat 41°44'05", long 70°46'30", Plymouth County, at bridge on County Rd., 2.5 mi north of Marion.	28.1	1972-73	10-13-72b 6- 6-73 8- 8-73b 9- 6-73	44 42 19 11
		Aucoot Creek basin				
01105908	Aucoot Creek near Marion, Mass.	Lat 41°41'05", long 70°46'25", Plymouth County, at culvert on U.S. Highway 6, 1.5 mi south of Marion.	2.71	1972-73	6- 6-73 8- 8-73b 9- 6-73	1.4 .68 .41
		Mattapoisett River basin				
01105911	Mattapoisett River at Rounseville Rd., near Rochester, Mass.	Lat 41°44'10", long 70°51'45", Plymouth County, at bridge on Rounseville Rd., 2.2 mi west of Rochester.	11.2	1972-73	10-13-72b 6- 6-73 8- 8-73b 9- 5-73	17 20 7.8 6.0
01105914	Mattapoisett River at Tinkham Lane, near Mattapoisett, Mass.	Lat 41°41'05", long 70°50'30", Plymouth County, at bridge on Tinkham Lane, 2 mi northwest of Mattapoisett.	18.2	1972-73	6- 6-73 8- 9-73b 9- 5-73	25 9.3 7.1
01105917	Mattapoisett River near Mattapoisett, Mass.	Lat 41°39'45", long 70°50'20", Plymouth County, 0.4 mi above bridge on U.S. Highway 6, 1.5 mi west of Mattapoisett.	24.0	1965f, 1972-73	6- 6-73 9- 5-73	30 9.2
01105921	Swift Brook near Mattapoisett, Mass.	Lat 41°38'50", long 70°49'40", Plymouth County, at culvert 0.1 mi above Mattapoisett Neck Rd., 1 mi southwest of Mattapoisett.	1.18	1972-73	6- 6-73 8- 9-73b 9- 5-73	.21 .07 0
		Acushnet River basin				
01105924	Acushnet River at Leonard Street, near Acushnet, Mass.	Lat 41°43'25", long 70°53'50", Bristol County, at bridge on Leonard St., 2.5 mi north of Acushnet.	7.51	1972-73	6- 6-73 8- 9-73b 9- 6-73	9.5 4.6 5.0
01105926	Acushnet River at Acushnet, Mass.	Lat 41°41'45", long 70°54'52", Bristol County, at bridge on Hamlin Rd., 1 mi north of Acushnet.	16.4	1972-73	10-12-72b 6- 6-73 8- 9-73b 9- 6-73	26 18 8.1 6.9
		Buttonwood Brook basin				
01105928	Buttonwood Brook near South Dartmouth, Mass.	Lat 41°36'15", long 70°57'20", Bristol County, at bridge on Russells Mills Rd., 1.5 mi northwest of South Dartmouth.	2.93	1972-73	6- 6-73 8- 9-73b 9- 6-73	.96 .69 .51
		Slocums River basin				
01105933	Paskamanset River near South Dartmouth, Mass.	Lat 41°35'07", long 70°59'25", Bristol County, at bridge on Russells Mills Rd., 3 mi west of South Dartmouth.	26.1	1972-73	10-12-72b 6- 6-73 8- 9-73b 9- 6-73	32 21 7.8 6.8

b Record of chemical analyses for this date in Part 2 of this report.
e Not base flow.
f Published in table of miscellaneous measurements.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
		Slocums River basin--Continued				
01105935	Destruction Brook near South Dartmouth, Mass.	Lat 41°34'20", long 71°00'50", Bristol County, at bridge on Slades Corner Rd., 5 mi southwest of South Dartmouth.	2.63	1972-73	6- 6-73	3.0
					8- 9-73b	1.7
					9- 6-73	.89
		East Branch Westport River basin				
01105937	Shingle Island River near North Dartmouth, Mass.	Lat 41°40'50", long 71°01'05", Bristol County, at bridge on Old Fall River Rd., 3 mi northwest of North Dartmouth.	8.31	1972-73	6- 7-73	6.5
					8- 9-73b	2.2
					9- 6-73	1.7
01105943	Shingle Island River at Hixville Road, near North Dartmouth, Mass.	Lat 41°40'10", long 71°01'32", Bristol County, at culvert on Hixville Rd., 3 mi northwest of North Dartmouth.	18.1	1972-73	10-12-72b	24
					6- 7-73	24
					8- 9-73b	5.1
					9- 6-73	4.9
01105947	Bread and Cheese Brook at Head of Westport, Mass.	Lat 41°38'00", long 71°03'46", Bristol County, at culvert on State Highway 177, 1 mi north of Head of Westport.	8.70	1972-73	10-12-72b	12
					6- 7-73	6.8
					8- 9-73b	1.8
					9- 6-73	1.5
*01105950	Kirby Brook near Head of Westport, Mass.	Lat 41°36'02", long 71°04'25", Bristol County, at culvert on Drift Rd., 1.5 mi south of Head of Westport.	3.69	1965, 1972-73	6- 7-73	1.8
					8- 9-73b	.20
					9- 6-73	.0
		West Branch Westport River basin				
01106005	Angeline Brook near Westport Point, Mass.	Lat 41°33'05", long 71°06'20", Bristol County, at culvert on Cornell Rd., 2.5 mi northwest of Westport Point.	3.22	1972-73	10-12-72b	3.0
					6- 7-73	2.2
					8- 9-73b	.40
					9- 6-73	.19
		Lee River basin				
01109130	Lewin Brook at Swansea, Mass.	Lat 41°44'55", long 71°11'45", Bristol County, at culvert on Stevens Rd., at Swansea.	2.83	1972-73	6- 7-73	1.2
					8-10-73b	.21
					9-11-73	.08
		Cole River basin				
01109135	Cole River near Swansea, Mass.	Lat 41°46'30", long 71°12'00", Bristol County, at bridge on Hortonville Rd., 2 mi north of Swansea.	7.79	1972-73	10-12-72b	9.6
					6- 7-73	5.3
					8-10-73b	1.4
					9-11-73	5.0
		Palmer River basin				
01109195	East Branch Palmer River at Rehoboth, Mass.	Lat 41°50'30", long 71°14'35", Bristol County, at bridge on State Highway 118, at Rehoboth.	11.7	1972-73	6- 7-73	22
					8-10-73b	1.8
					9-11-73	13
01109215	Palmer River near Rehoboth, Mass.	Lat 41°49'50", long 71°16'55", Bristol County, at bridge on Summer St., 2 mi southwest of Rehoboth.	23.0	1972-73	10-12-72b	35
					6- 7-73	78
					8-10-73b	6.8
					9-11-73	31
01109225	Rocky Run near Rehoboth, Mass.	Lat 41°46'52", long 71°15'05", Bristol County, at culvert on Davis St., 4 mi south of Rehoboth.	7.37	1972-73	10-12-72b	6.7
					6- 7-73	5.5
					8-10-73b	1.2
					9-11-73	3.6
		Runnins River basin				
*01109270	Runnins River at Seekonk, Mass.	Lat 41°49'25", long 71°20'00", Bristol County, at culvert on Pleasant St., 1 mi north of Seekonk.	4.24	1972-73	6- 7-73	3.7
					8-10-73b	1.2
					9-11-73	4.6

* Also a crest-stage partial-record station.
b Record of chemical analyses for this date in Part 2 of this report.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
Androscoggin River basin							
01054120	Josh Brook near Gorham, N.H.	Lat 44°23'15", long 71°07'58", Coos County, at culvert on U.S. Highway 2, 2 mi east of Gorham.	0.67	1973	6-30-73	18.77	235
Saco River basin							
01064250	Albany Brook tributary near Bartlett, N.H.	Lat 44°04'23", long 71°18'10", Carroll County, at culvert on U.S. Highway 302, 1 mi west of Bartlett.	0.20	1973	6-30-73	7.57	135
01064380	East Branch Saco River near Lower Bartlett, N.H.	Lat 44°07'21", long 71°07'50", Carroll County, at bridge on gravel road, 1.7 mi northeast of Lower Bartlett.	32.0	1967-73	6-30-73	2.55	2,700
01064750	Meadow Brook near Sandwich, N.H.	Lat 43°47'53", long 71°22'30", Carroll County, at culvert on Little Pond Rd., 0.3 mi west of State Highway 25 and 1.9 mi east of Sandwich.	.67	1973	7- 5-73	10.20	175
01064780	Square Brook near Freedom, N.H.	Lat 43°49'55", long 71°04'35", Carroll County, at culvert on State Highway 153, 2.7 mi north of Effingham Falls and 2.4 mi northwest of Freedom.	1.20	1973	3-18-73	7.71	33
Piscataqua River Basin							
01073750	Mill Brook at Stratham, N.H.	Lat 43°01'24", long 70°55'04", Rockingham County, at culvert on southbound lane of State Highway 101 and 108, 0.3 mi west of Stratham.	2.30	1973	4- 2-73	13.66	390
01073850	Hampton Falls River near Hampton Falls, N.H.	Lat 42°54'35", long 70°52'58", Rockingham County, at culvert on N.H. Highway 150, 1.1 mi southwest of Hampton Falls and 0.3 mi west of Interstate Highway 95.	4.73	1973	4- 2-73	17.08	165
Merrimack River basin							
01078800	West Alton Brook near Alton, N.H.	Lat 43°32'10", long 71°19'22", Belknap County at culvert on State Highway 11 A, 1.2 mi west of junction with State Highway 11, and 1.3 mi south of West Alton.	2.39	1973	-	(a)	<100
01081900	Town Line Brook tributary near Peterborough, N.H.	Lat 42°51'09", long 71°54'14", Hillsborough County, at culvert on State Highway 101, 2.8 mi west of Peterborough, and 5 mi west of West Wilton.	.75	1972-73	7- 4-73	7.04	72
01082490	Mud Pond tributary near Dublin, N.H.	Lat 42°54'08", long 72°01'52", Cheshire County, at culvert on secondary dead-end road, 0.3 mi west of Bonds Corner, and 0.1 mi south of State Highway 101.	1.39	1972-73	6-30-73	17.68	88
01084500	Beards Brook near Hillsboro, N.H.	Lat 43°06'51", long 71°55'36", Hillsborough County, 300 ft above bridge on State Highway 9, 500 ft above mouth, and 1.5 mi west of Hillsboro.	55.4	1946-70‡, 1971-73	4- 2-73	5.65	1,660
01089500	Suncook River at North Chichester, N.H.	Lat 43°15'23", long 71°22'10", Merrimack County, 100 ft below bridge on Depot Rd. at North Chichester and 3.1 mi above Little Suncook River.	157	1918-27‡, 1929-70‡, 1972-73	4- 4-73	8.35	1,680
01089750	Marden Brook near Epsom, N.H.	Lat 43°12'13", long 71°23'16", Merrimack County, at culvert on State Highway 28, 2 mi south of Epsom.	1.16	1973	6-30-73	6.51	21
01090480	Rays Brook at Manchester, N.H.	Lat 43°01'08", long 71°27'02", Hillsboro County, at culvert on Campbell St., Manchester, 0.1 mi upstream from Dorrs Pond.	1.74	1973	6-30-73	14.49	75

‡ Operated as a continuous-record gaging station.

a Peak stage did not reach bottom of the gage.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Merrimack River basin--Continued					
01094006	McQuade Brook near Bedford, N.H.	Lat 42°55'45", long 71°33'20", Hillsborough County, at culvert on North Amherst Rd. at junction with Hardy Rd., 2.3 mi southwest of Bedford.	4.13	1972-73	3-18-73	15.64	80
01095200	Houghton Brook near Oakdale, Mass.	Lat 42°24'57", long 71°48'12", Worcester County, at culvert on State Highway 140, 2 mi north of Oakdale.	.69	1964-73	2- 3-73	7.52	26
01095800	Easter Brook near North Leominster, Mass.	Lat 42°32'46", long 71°42'45", Worcester County, at culvert on Lancaster Ave., 1.5 mi east of North Leominster.	.92	1964-73	4- 2-73	14.42	54
01097200	Heath Hen Meadow Brook at Stow, Mass.	Lat 42°26'44", long 71°30'02", Middlesex County, at culvert on West Acton Rd., 0.7 mi northeast of Stow.	3.89	1964-73	6-30-73	5.79	65
01097450	Jackstraw Brook at Hopkinton Road, Westborough, Mass.	Lat 42°15'28", long 71°36'13", Worcester County, at culvert on Hopkinton Rd. (Route 135), 0.9 mi southeast of Westborough.	1.24	1972-73	12- 7-72	8.40	47
01098700	Hayward Brook at Wayland, Mass.	Lat 42°21'40", long 71°20'51", Middlesex County, at culvert on U.S. Highway 20, 0.7 mi east of Wayland.	2.32	1964-73	4- 2-73	7.55	47
*01100100	Richardson Brook near Lowell, Mass.	Lat 42°39'48", long 71°16'02", Middlesex County, at culvert on Methuen St., 3 mi northeast of Lowell.	4.32	1963-73	4- 2-73	13.76	163
01100800	Cobbler Brook near Merrimac, Mass.	Lat 42°50'55", long 71°01'10", Essex County, at culvert on Highland St., 1.3 mi northwest of Merrimac.	.77	1963-73	4- 2-73	10.91	110
		Parker River basin					
01100900	Parker River tributary near Georgetown, Mass.	Lat 42°44'03", long 70°58'22", Essex County, at culvert on North St., 1.2 mi northeast of Georgetown.	0.65	1964-73	4- 2-73	11.00	29
		Charles River basin					
01104600	Beaver Brook at Belmont, Mass.	Lat 42°23'26", long 71°11'51", Middlesex County, at culvert on State Highway 60 (Trapelo Rd.), 1 mi southwest of Belmont.	4.09	1963-73	2- 3-73	11.55	142
		Neponset River basin					
01104900	Hill Brook at Westwood, Mass.	Lat 42°12'21", long 71°14'26", Norfolk County, at culvert on State Highway 109, at Westwood.	1.52	1964-73	2- 3-73	7.48	40
01105550	Plantingfield Brook at Norwood, Mass.	Lat 42°12'17", long 71°11'13", Norfolk County, at culvert on State Highway 1, 1.0 mi northeast of Norwood.	1.52	1964-73	7- 1-73	14.56	93
		South River basin					
01105850	Furnace Brook near Marshfield, Mass.	Lat 42°06'30", long 70°43'53", Plymouth County, at culvert on Furnace St., 1.7 mi northwest of Marshfield.	1.61	1964-73	7- 1-73	8.81	35
		East Branch Westport River basin					
01105950	Kirby Brook near Head of Westport, Mass.	Lat 41°36'02", long 71°04'25", Bristol County, at culvert on Drift Rd., 1.5 mi south of Head of Westport.	3.69	1964-73	2- 3-73	9.21	148
		Cold Brook basin					
01106100	Cold Brook near Adamsville, R.I.	Lat 41°32'37", long 71°09'05", Newport County, at culvert on Cold Brook Rd., 1.3 mi southwest of Adamsville.	1.15	1966-73	11-21-72	8.79	44
		Taunton River basin					
01106485	Meadow Brook tributary near Whitman, Mass.	Lat 42°04'11", long 70°57'34", Plymouth County, at culvert on Auburn St., 1.3 mi southwest of Whitman.	1.04	1967-73	7- 1-73	6.90	45
01108100	Snows Brook near Bridgewater, Mass.	Lat 41°56'53", long 70°59'37", Plymouth County, at culvert on Cross St., 3 mi south of Bridgewater.	1.41	1964-73	2- 3-73	8.28	94

*Also a low-flow partial-record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Taunton River basin--Continued					
01109050	Threemile River tributary near Oakland, Mass.	Lat 41°55'38", long 71°09'17", Bristol County, at culvert on State Highway 140, 1.3 mi northwest of Oakland.	0.50	1964-73	9- 7-73	6.89	29
01109075	Holloway Brook near Myricks, Mass.	Lat 41°49'34", long 70°59'25", Plymouth County, at culvert on Pickens St., 2.0 mi east of Myricks.	1.16	1967-73	11-15-72	6.57	46
01109085	Quaker Brook near Myricks, Mass.	Lat 41°49'29", long 71°03'18", Bristol County, at culvert on Bryant St., 1.5 mi southwest of Myricks.	1.94	1967-73	2- 3-73	8.63	66
01109100	Taunton River tributary near Fall River, Mass.	Lat 41°45'31", long 71°07'01", Bristol County, at culvert on State Highway 79, 4 mi northeast of Fall River.	.25	1964-73	2- 3-73	11.03	48
		Runnins River basin					
*01109270	Runnins River at Seekonk, Mass.	Lat 41°49'25", long 71°20'00", Bristol County, at culvert on Pleasant St., 1.0 mi north of Seekonk.	4.24	1967-73	7- 1-73	6.59	98
		Metacomet Brook basin					
01109300	Metacomet Brook at East Providence, R.I.	Lat 41°48'19", long 71°22'25", Providence County, at culvert on South Broadway, at East Providence.	0.82	1966-73	6-13-73	10.93	90
		Blackstone River basin					
01111250	Dry Arm Brook near Wallum Lake, R.I.	Lat 41°58'22", long 71°45'03", Providence County, at culvert on State Highway 100, 1.8 mi south of Wallum Lake.	1.74	1966-73	2- 3-73	8.50	63
01111450	Mowry Paine Brook near Chepachet, R.I.	Lat 41°55'15", long 71°37'26", Providence County, at culvert on Cooper Rd., 2.5 mi northeast of Chepachet.	1.07	1966-73	2- 3-73	8.16	107
01112300	Bungay Brook near Sheldonville, Mass.	Lat 42°01'29", long 71°27'24", Bristol County, at culvert on Wrentham St., 3.5 mi west of Sheldonville.	2.66	1964-73	7- 1-73	7.25	142
01113600	Blackstone River tributary No. 2 at Berkeley, R.I.	Lat 41°55'27", long 71°26'49", Providence County, at culvert on State Highway 122, 0.5 mi southeast of Berkeley.	1.04	1966-73	9- 6-73	6.05	34
		Pawtuxet River basin					
01115200	Shippee Brook tributary at North Foster, R.I.	Lat 41°49'53", long 71°45'10", Providence County, at culvert on Willoughby Young Rd., at North Foster.	0.55	1966-73	2- 3-73	9.53	36
[illegible]	Wilbur Hollow Brook near Clayville, R.I.	Lat 41°46'00", long 71°39'03", Providence County, at culvert on State Highway 12, 2.3 mi east of Clayville.	4.61	1966-73	2- 3-73	12.61	190
[illegible]	Bear Brook near Coventry, R.I.	Lat 41°39'37", long 71°37'42", Kent County, at culvert on Fish Hill Rd., 3 mi south of Coventry.	1.00	1966-73	2- 3-73	9.72	108
[illegible]	Pocasset River near North Scituate, R.I.	[illegible], Providence County, at culvert on Belfield Drive, 3 mi east of North Scituate.	[illegible]	1966-73	2- 3-73	[illegible]	29
		Hardig Brook basin					
[illegible]	Hardig Brook near West Warwick, R.I.	[illegible], at culvert on Hardig Rd., [illegible] southeast of West Warwick.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible] River basin					
[illegible]	[illegible] Brook near [illegible], R.I.	[illegible], at culvert on Tillinghast Rd., [illegible] northwest of [illegible].	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible] Brook basin					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

*Also a low-flow partial-record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Pawcatuck River basin					
01117400	Glen Rock Brook tributary at Usquepaug, R.I.	Lat 41°31'04", long 71°36'18", Washington County, at culvert on Glen Rock Rd., 1 mi north of Usquepaug.	1.04	1966-73	2- 3-73	5.28	56
01117820	Wood River tributary near Arcadia, R.I.	Lat 41°34'32", long 71°42'52", Washington County, at culvert on State Highway 165, 1.8 mi northwest of Arcadia.	.77	1966-73	12- 7-72	9.08	22
01118020	Perry Healy Brook near Bradford, R.I.	Lat 41°22'41", long 71°43'42", Washington County, at culvert on State Highway 216, 2 mi southeast of Bradford.	1.82	1966-73	4- 2-73	7.48	27
		Thames River basin					
01123160	Wales Brook tributary near Wales, Mass.	Lat 42°04'48", long 72°11'51", Hampden County, at culvert on Holland Rd., 1.5 mi northeast of Wales.	0.71	1964-73	2- 3-73	8.46	35
01124050	Tufts Branch at Dudley, Mass.	Lat 42°03'11", long 71°56'22", Worcester County, at culvert on Dudley-Southbridge Rd., 0.7 mi northwest of Dudley.	1.06	1963-73	2- 3-73	13.49	128
		Connecticut River basin					
01129210	Ad Chase Brook near Pittsburg, N.H.	Lat 45°02'20", long 71°27'10", Coos County, at culvert on U.S. Highway 3, 100 ft above mouth, 1 mi below Indian Stream, and 3 mi southwest of Pittsburg.	1.62	1973	6-30-73	21.73	160
01129400	Black Brook at Averill, Vt.	Lat 45°00'14", long 71°41'34", Essex County, at culvert on State Highway 114, 1 mi northeast of Averill.	.58	1964-73	6-30-73	12.37	50
01129700	Paul Stream tributary near Brunswick, Vt.	Lat 44°41'03", long 71°37'18", Essex County, at culvert on macadam road leading to Maidstone Lake, 3.5 mi south of Brunswick.	1.29	1966-73	6-30-73	10.18	60
01129850	Connecticut River tributary near Stratford, N.H.	Lat 44°38'42", long 71°32'30", Coos County, at culvert on U.S. Highway 3, 0.8 mi south of Stratford.	1.51	1973	6-30-73	16.17	275
01129950	Upper Ammonoosuc River tributary near Stark, N.H.	Lat 44°35'40", long 71°25'30", Coos County, at culvert on State Highway 110, 1.1 mi west of Stark.	.58	1973	6-30-73	-	b100
01131250	Cherry Mountain Brook tributary near Twin Mountain, N.H.	Lat 44°18'40", long 71°31'40", Coos County, at culvert on State Highway 115, 1.1 mi north of junction with U.S. Highway 3, and 2.8 mi north of Twin Mountain.	1.31	1973	6-30-73	18.82	265
01133200	Quimby Brook near Lyndonville, Vt.	Lat 44°35'52", long 71°59'11", Caledonia County, at culvert on dirt road, 3.5 mi north of Lyndonville.	2.32	1964-73	6-22-73	13.11	128
01133300	Cold Hill Brook near Lyndon, Vt.	Lat 44°31'47", long 72°03'01", Caledonia County, at culvert on dirt road, 2 mi northwest of Lyndon.	1.52	1964-73	6-30-73	14.43	195
[illegible]	Joes Brook tributary near East Barnet, Vt.	Lat [illegible], long [illegible], Caledonia County, at culvert on dirt road, 1.8 mi northeast of East Barnet.	.78	1964-73	6-30-73	13.58	88
[illegible]	Keenan Brook at Groton, Vt.	Lat [illegible], long [illegible], Caledonia County, at culvert on macadam road, 0.8 mi south of Groton.	[illegible]	1964-73	6-30-73	17.8	175
[illegible]	Waits River tributary near West Topsham, Vt.	Lat [illegible], long [illegible], Orange County, at culvert on U.S. Highway 302, 2 mi north of West Topsham.	[illegible]	1964-73	6-30-73	[illegible]	86
[illegible]	South Branch Waits River tributary near Bradford Center, Vt.	Lat [illegible], long [illegible], Orange County, at culvert on macadam road, 3 mi northwest of Bradford Center.	[illegible]	1964-73	[illegible]	[illegible]	6
[illegible]	West Branch Ompompanoosuc River tributary at South Strafford, Vt.	Lat [illegible], long [illegible], Orange County, at culvert on dirt road at South Strafford.	[illegible]	1964-73	[illegible]	[illegible]	[illegible]

b Estimated.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Connecticut River basin--Continued					
01142400	Third Branch White River tributary at Randolph, Vt.	Lat 43°55'54", long 72°40'58", Orange County, at culvert on State Highway 12A, 1 mi northwest of Randolph.	0.77	1964-73	6-30-73	11.73	84
01151200	Ottauquechee River tributary near Quechee, Vt.	Lat 43°39'37", long 72°25'55", Windsor County, at culvert on Quechee Rd., 1.2 mi northwest of Quechee.	.82	1964-73	6-30-73	13.35	93
01153300	Middle Branch Williams River tributary at Chester, Vt.	Lat 43°16'13", long 72°36'32", Windsor County, at culvert on macadam road at Chester.	3.16	1964-73	6-30-73	20.64	260
01153800	Bull Creek tributary near Athens, Vt.	Lat 43°06'08", long 72°34'55", Windham County, at culvert on gravel road, 2 mi southwest of Athens.	.60	1964-73	6-30-73	14.89	136
01155350	West River tributary near Jamaica, Vt.	Lat 43°07'32", long 72°48'47", Windham County, at culvert on State Highway 100, 2.5 mi northwest of Jamaica.	90	1964-73	6-30-73	15.14	320
01156300	Whetstone Brook tributary near Marlboro, Vt.	Lat 42°52'42", long 72°42'30", Windham County, at culvert on State Highway 9, 1.5 mi northeast of Marlboro.	1.05	1963-73	6-30-73	6.24	150
01156450	Connecticut River tributary near Vernon, Vt.	Lat 42°47'01", long 72°31'57", Windham County, at culvert on macadam road, 1.5 mi northwest of Vernon.	1.12	1964-73	3-17-73	8.97	57
01161300	Millers Brook at Northfield, Mass.	Lat 42°41'07", long 72°27'11", Franklin County, at culvert on Beers Plain Rd., 0.8 mi south of Northfield.	2.33	1964-73	3-17-73	16.73	153
01163100	Wilder Brook near Gardner, Mass.	Lat 42°35'42", long 72°00'53", Worcester County, at culvert on Clark St., 1.5 mi northwest of Gardner.	2.50	1964-73	3-17-73	12.19	56
01170200	Allen Brook near Shelburne Falls, Mass.	Lat 42°36'46", long 72°40'02", Franklin County, at culvert on Peckville Rd., 1.5 mi east of Shelburne Falls.	.73	1964-73	8- 2-[illegible]	6.67	39
[illegible]	Mill River near South Deerfield, Mass.	Lat 42°28'09", long 72°38'31", Franklin County, at culvert on North St., 2 mi southwest of South Deerfield.	6.37	1963-73	6-30-73	12.17	130
01171200	[illegible] Brook at Dwight, Mass.	Lat 42°19'40", long 72°26'47", Hampshire County, at culvert on State Highway 9, at Dwight.	2.90	1963-66, 1968-73	2- 3-73	15.80	125
[illegible]	Broad Brook near Holyoke, Mass.	Lat 42°11'50", long 72°41'11", Hampden County, at culvert on [illegible] Rd., 3.5 mi west of Holyoke.	2.05	[illegible]	6-30-73	17.50	70
[illegible]	Pleasant Brook near Barre, Mass.	[illegible], Worcester County, at culvert on State Highway [illegible], [illegible] mi east of Barre.	[illegible]	[illegible]	[illegible]	7.53	62
[illegible]	Fish Brook near Gilbertville, Mass.	[illegible], Worcester County, at culvert on [illegible] Rd., [illegible] mi northwest of Gilbertville.	[illegible]	[illegible]	[illegible]	[illegible]	78
[illegible]	Middle Branch Swift River at North New Salem, Mass.	[illegible], Franklin County, at culvert on [illegible] St., at North New Salem.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] Brook near Paxton, Mass.	[illegible], Worcester County, at culvert on Spring St., [illegible] mi west of Paxton.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] Brook near Belchertown, Mass.	[illegible], Hampshire County, at culvert on State Highway [illegible], [illegible] mi south of Belchertown.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] Brook at [illegible], Mass.	[illegible], Hampshire County, at culvert on High St., [illegible] mi east of [illegible].	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] Brook near [illegible], Mass.	[illegible], Hampshire County, at culvert on State Highway [illegible], [illegible] mi southwest of [illegible].	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] Brook tributary at [illegible], Mass.	[illegible], Hampden County, at culvert on State Highway [illegible], at [illegible].	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Connecticut River basin--Continued					
01183810	Longmeadow Brook at Pondside Rd., near Longmeadow, Mass.	Lat 42°02'22", long 72°35'32", Hampden County, at culvert on Pondside Rd., 2 mi southwest of Longmeadow.	4.15	1967-73	2- 3-73	5.42	130
01184900	Haley Pond Outlet (tributary to Big Pond) near Otis, Mass.	Lat 42°12'15", long 73°01'56", Berkshire County, at culvert on Algerie Rd., 3 mi northeast of Otis.	.27	1964-73	3-17-73	10.54	12
		Housatonic River basin					
01196990	Windsor Brook tributary at Windsor, Mass.	Lat 42°30'41", long 73°04'37", Berkshire County, at culvert on State Highway [illegible], 0.9 mi west of Windsor.	0.29	1964-73	6-30-73	10.64	24
01197050	Churchill Brook at Pittsfield, Mass.	Lat 42°29'28", long 73°16'56", Berkshire County, at culvert on Churchill St., at north limits of Pittsfield.	1.16	1964-73	6-30-73	12.64	69
01197155	Housatonic River tributary No. 2 at Lee, Mass.	Lat 42°18'21", long 73°13'49", Berkshire County, at culvert on East St., 1.0 mi east of Lee.	.73	1965-73	2- 3-73	6.47	45
01197550	Housatonic River tributary at Risingdale, Mass.	Lat 42°13'57", long 73°20'47", Berkshire County, at culvert on State Highway 183, 0.7 mi southeast of Risingdale.	.69	1963-73	11- 8-72	15.59	17
		Hudson River basin					
01328900	Tanner Brook near Sunderland, Vt.	Lat 43°07'52", long 73°05'45", Bennington County, at culvert on U.S. Highway 7, 1.3 mi north of Sunderland.	2.60	1964-73	12- 6-72	10.75	38
01333800	South Stream near Bennington, Vt.	Lat 42°49'53", long 73°10'04", Bennington County, at culvert on South Stream Rd, 3.5 mi southeast of Bennington.	7.70	1963-73	6-30-73	11.74	166
01333900	Paran Creek near South Shaftsbury, Vt.	Lat 42°58'13", long 73°11'19", Bennington County, at culvert on dirt road, 2 mi northeast of South Shaftsbury.	2.38	1964-73	6-30-73	11.52	193
		St. Lawrence River basin					
[illegible]	Poultney River tributary at East Poultney, Vt.	Lat 43°32'17", long 73°12'36", Rutland County, at culvert 1.0 mi north of East Poultney.	1.13	1964-73	3-17-73	11.37	65
[illegible]	Mettawee River tributary No. 2 at East Rupert, Vt.	Lat 43°[illegible], long 73°[illegible], Bennington County, at culvert on State Highway [illegible] at East Rupert.	1.86	1963-73	6-30-73	12.76	46
[illegible]	Moon Brook at Rutland, Vt.	Lat 43°[illegible], long 72°[illegible], Rutland County, at culvert on macadam road, 1.0 mi east of Rutland.	2.12	1964-73	6-30-73	11.35	98
[illegible]	Neshobe River at Brandon, Vt.	Lat 43°[illegible], long 73°[illegible], Rutland County, at bridge on dirt road, 1.0 mi southeast of Brandon.	20.1	1968-73	6-30-73	7.01	690
[illegible]	Brandy Brook at Bread Loaf, Vt.	Lat 43°[illegible], long 72°[illegible], Addison County, at culvert on State Highway 125, at Bread Loaf, and 2 mi east of Ripton.	2.24	1963-73	11- 8-72	13.53	215
[illegible]	Beaver Brook at Cornwall, Vt.	Lat 43°[illegible], long 73°[illegible], Addison County, at culvert on State Highway 74, at Cornwall.	1.11	1964-73	3- 6-73	11.16	47
[illegible]	Little Otter Creek tributary near Bristol, Vt.	Lat 44°[illegible], long 73°[illegible], Addison County, at culvert on dirt road, 2 mi southwest of Bristol.	1.08	1964-73	6-30-73	11.16	64
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		St. Lawrence River basin--Continued					
04288400	Bryant Brook at Waterbury Center, Vt.	Lat 44°22'41", long 72°43'29", Washington County, at culvert on State Highway 100, at Waterbury Center.	2.64	1964-73	6-30-73	13.94	302
04289600	Winooski River tributary near Richmond, Vt.	Lat 44°26'09", long 72°58'46", Chittenden County, at culvert on macadam road, 2 mi north of Richmond.	.71	1964-73	6-30-73	11.48	32
04290700	Bailey Brook at East Hardwick, Vt.	Lat 44°31'41", long 72°18'16", Caledonia County, at culvert on macadam road, 0.5 mi northeast of East Hardwick.	2.52	1964-73	6-30-73	15.92	285
04292150	Gihon River tributary near Johnson, Vt.	Lat 44°39'36", long 72°37'44", Lamoille County, at culvert on State Highway 100 C, 3 mi northeast of Johnson.	.31	1964-73	6-30-73	10.87	45
04292200	Lamoille River tributary at Jeffersonville, Vt.	Lat 44°39'13", long 72°49'42", Lamoille County, at culvert on State Highway 108, at Jeffersonville.	.58	1964-73	6-30-73	11.27	30
04293400	Whittaker Brook at Richford, Vt.	Lat 44°59'14", long 72°39'13", Franklin County, at culvert on State Highway 105, 1 mi east of Richford.	.64	1963-73	6-21-73	9.63	59
04293800	Missisquoi River tributary at Sheldon Junction, Vt.	Lat 44°54'01", long 72°57'35", Franklin County, at culvert on State Highway 105, at Sheldon Junction.	1.69	1963-73	6-30-73	13.63	108
04294200	Saxe Brook near Highgate Springs, Vt.	Lat 44°59'38", long 73°03'59", Franklin County, at culvert on dirt road, 2.5 mi northeast of Highgate Springs.	2.79	1963-73	6-30-73	12.04	51
04295900	Ware Brook near Coventry, Vt.	Lat 44°51'02", long 72°17'33", Orleans County, at culvert on dirt road, 2 mi southwest of Coventry.	2.87	1963-73	6-30-73	15.29	171
04296150	Lord Brook near Evansville, Vt.	Lat 44°46'59", long 72°07'08", Orleans County, at culvert on State Highway 16, 1.5 mi south of Evansville.	4.78	1964-73	6-30-73	14.37	340
04296300	Pherrins River tributary near Island Pond, Vt.	Lat 44°50'33", long 71°54'32", Essex County, at culvert on State Highway 114, 2.3 mi northwest of Island Pond.	1.05	1964-73	6-30-73	11.06	54

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk(*); indirect measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1973

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Merrimack River basin				
Whitman River	North Nashua River	Lat 42°33'35", long 71°52'02", Worcester County, at State Highway 2A, 2.5 mi northeast of Westminster, Mass.	-	-	3-19-73b 7-30-73 8-27-73 8-29-73	173 *7.9 *12 *11
Whitman River tributary	Whitman River	Lat 42°33'24", long 71°52'25", Worcester County, at Depot Rd., 2 mi northeast of Westminster, Mass.	-	-	7-30-73 8-27-73 8-29-73	3.1 1.3 1.6
Flag Brook	North Nashua River	Lat 42°33'31", long 71°50'42", Worcester County, 500 ft below railroad trestle, 2.5 mi southwest of Fitchburg, Mass.	-	-	7-30-73 8-27-73 8-29-73	7.8 3.6 6.0
Phillips Brook	do	Lat 42°35'28", long 71°51'41", Worcester County, at Potato Hill Rd., 4.2 mi northeast of Westminster, Mass.	-	-	3-19-73b	69
Phillips Brook	do	Lat 42°34'33", long 71°50'19", Worcester County, 800 ft above mouth, 2 mi southwest of Fitchburg, Mass.	-	-	7-30-73 8-27-73 8-29-73	3.8 3.4 2.1
North Nashua River (head of Nashua River)	Merrimack River	Lat 42°34'30", long 71°50'06", Worcester County, at Depot St., 1.5 mi southwest of Fitchburg, Mass.	-	-	8- 1-73	31
Baker Brook	North Nashua River	Lat 42°33'41", long 71°45'56", Worcester County, at Falulah Rd., 2.5 mi southeast of Fitchburg, Mass.	-	-	7-30-73 8-29-73	*2.8 *1.0
North Nashua River	Merrimack River	Lat 42°32'32", long 71°44'47", Worcester County, at Hamilton St., North Leominster, Mass.	-	-	3-21-73b	386
Fall Brook	North Nashua River	Lat 42°30'40", long 71°44'20", Worcester County, at State Highway 117, 1.5 mi southeast of Leominster, Mass.	-	-	7-30-73 8-29-73	4.4 3.8
North Nashua River	Merrimack River	Lat 42°28'23", long 71°40'59", Worcester County, at North Main St., 1.5 mi north of Lancaster, Mass.	-	-	3-21-73b	549
North Nashua River	do	Lat 42°27'04", long 71°40'20", Worcester County, at Main St., 0.5 mi south of Lancaster, Mass.	-	-	8- 2-73 8-28-73 8-30-73	106 86 [illegible]
South Branch Nashua River	Nashua River	Lat 42°26'18", long 71°40'00", Worcester County, at Bolton Rd., 1 mi east of Clinton, Mass.	-	-	7-31-73 8- 2-73 8-28-73 8-30-73	2.7 [illegible] [illegible] [illegible]
South Branch Nashua River	do	Lat 42°26'18", long 71°40'59", Worcester County, at Mill St., 0.5 mi southeast of South Lancaster, Mass.	-	-	3-21-73b 7-31-73 8- 2-73 8-28-73 8-30-73	52 [illegible] 57 [illegible] [illegible]
Nashua River	Merrimack River	[illegible]	-	-	[illegible]	[illegible]
Squannacook River	Nashua River	[illegible]	-	-	[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible]
[illegible]	Merrimack River	[illegible]	-	-	[illegible]	[illegible]
[illegible]	do	[illegible]	-	-	[illegible]	[illegible]
[illegible]	do	[illegible]	-	-	[illegible]	[illegible]

b [illegible]

[illegible]

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water year)	Measurements Date	Measurements Discharge (ft³/s)
		Merrimack River basin--Continued				
Shawsheen River	Merrimack River	Lat 42°29'53", long 71°15'23", Middlesex County, at bridge on State Highway 62, 1.3 mi northeast of Bedford, Mass.	-	-	4-20-73b	24
Shawsheen River	do	Lat 42°31'04", long 71°14'44", Middlesex County, at twin culvert on Middlesex Turnpike, 2.5 mi northeast of Bedford, Mass.	-	-	4-20-73b	44
Meadow Brook	Strong Water Brook	Lat 42°37'56", long 71°13'15", Middlesex County, at culvert on Kendall St., 1.5 mi north of Tewksbury, Mass.	-	-	9-28-73	0
Shawsheen River tributary	Shawsheen River	Lat 42°36'04", long 71°11'19", Middlesex County, at culvert on old railroad bed, 0.2 mi east of Shawsheen St., 2.4 mi southeast of Tewksbury, Mass.	-	-	9-27-73	.44
Shawsheen River tributary No. 2	do	Lat 42°36'52", long 71°11'23", Middlesex County, at culvert on Shawsheen St., 2.2 mi east of Tewksbury, Mass.	-	-	9-28-73	[c]c.10
Shawsheen River tributary No. 3	do	Lat 42°37'32", long 71°08'27", Essex County, at culvert on Ballardvale Rd., 1 mi east of Ballardvale, Mass.	-	-	9-28-73	[c]c.10
Bakers Meadow Reservoir Outlet	do	Lat 42°38'48", long 71°09'21", Essex County, at culvert on Argilla Rd., 1 mi southwest of Andover, Mass.	-	-	9-28-73	[c].22
Shawsheen River	Merrimack River	Lat 42°38'50", long 71°09'05", Essex County, at bridge on Horn Bridge Rd., 0.8 mi southwest of Andover, Mass.	-	-	4-20-73b	141
Shawsheen River	do	Lat 42°40'48", long 71°08'45", Essex County, 100 ft north of Andover-Lawrence town line, 1.4 mi southwest of North Andover, Mass.	-	-	4-20-73b	143
Cobbler Brook	do	Lat 42°49'55", long 70°59'55", Essex County, 100 ft above culvert on first road crossing brook northwest of U.S. Highway 495, 0.2 mi east of Merrimac, Mass.	-	-	4-26-73b	4.6
Powwow River	do	Lat 42°51'42", long 70°59'02", Essex County, at bridge on Newton Rd., 2.6 mi west of Amesbury, Mass.	-	-	4-25-73b	95
Powwow River	do	Lat 42°50'48", long 70°55'10", Essex County, at bridge on State Highway 110, 0.9 mi southeast of Amesbury, Mass.	-	-	4-25-73b	150
		Mystic River basin				
Aberjona River (head of Mystic River)	Boston Harbor (Atlantic Ocean)	Lat [illegible], long [illegible], Middlesex County, about 1,000 ft below U.S. Highway 93, 300 ft above Commerce Way, and 2.8 mi north of Woburn, Mass.	-	-	[illegible]	[illegible]
Aberjona River tributary	Aberjona River	Lat [illegible], long [illegible], Middlesex County, about 1,000 ft below U.S. Highway 93, 3 mi north of Woburn, Mass.	-	-	[illegible]	[illegible]
Aberjona River	Boston Harbor	Lat [illegible], long [illegible], Middlesex County, about 100 ft below Commerce Way, 2.7 mi north of Woburn, Mass.	-	-	[illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible]
Aberjona River	do	Lat [illegible], long [illegible], Middlesex County, 75 ft below outlet of culvert on State Highway 128, 1.8 mi northeast of Woburn, Mass.	-	-	[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible]
Aberjona River	do	Lat [illegible], long [illegible], Middlesex County, at bridge on Salem St., 1.2 mi northeast of Woburn, Mass.	-	-	[illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible]
Aberjona River	do	Lat [illegible], long [illegible], Middlesex County, at bridge on Washington St., 1.2 mi north of Winchester, Mass.	-	[illegible]	[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible]

b Record of chemical analyses for this date in Part 2 of this report.
c Field estimate.

Discharge measurements made at miscellaneous sites during water year 1973.--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Mystic River basin--Continued				
Horn Pond Brook	Aberjona River	Lat 42°27'38", long 71°08'48", Middlesex County, at culvert on Canal St., 0.7 mi northwest of Winchester, Mass.	-	-	6-11-73 6-15-73 8- 6-73	0.48 .89 4.2
Horn Pond Brook	do	Lat 42°27'20", long 71°08'19", Middlesex County, at weir at outlet of Wedge Pond, 0.2 mi north of Winchester, Mass.	-	-	6- 6-73b 6-11-73 6-14-73 6-15-73 8- 6-73	2.0 0.65 1.8 .95 4.4
Mill Brook	Lower Mystic Lake	Lat 42°25'20", long 71°08'59", Middlesex County, 1,200 ft above mouth, 0.4 mi northeast of Arlington, Mass.	-	-	6- 6-73b 6-11-73 6-15-73 8- 6-73 8- 9-73	3.9 3.4 4.1 3.9 3.2
Alewife Brook	Mystic River	Lat 42°24'25", long 71°08'04", Middlesex County, at culvert on Broadway, 1.2 mi southeast of Arlington, Mass.	-	-	6- 6-73b 6-12-73 8- 7-73	4.9 6.7 6.0
Malden River	do	Lat 42°25'31", long 71°04'24", Middlesex County, at culvert on Centre St., 0.3 mi west of Malden, Mass.	-	-	8- 6-73	2.7
		Connecticut River basin				
Dish Mill Brook	East Branch Passumpsic River	Lat 44°35'22", long 71°55'24", Caledonia County, 0.9 mi east of East Burke, Vt.	5.86	-	6-30-73	†1,040
Calendar Brook	West Branch Passumpsic River	Lat 44°36'36", long 72°00'18", Caledonia County, just above bridge, 1.9 mi southeast of Sutton, Vt.	17.4	-	6-30-73	†2,440
South Branch Waits River	Waits River	Lat 44°01'05", long 72°12'30", Orange County, 50 ft above highway bridge, 1.2 mi above mouth, and 4.5 mi northwest of Bradford, Vt.	d43.8	1940-51	6-30-73	†3,460
Adams Brook	Ayers Brook	Lat 43°55'48", long 72°39'04", Orange County, at culvert on State Highway 66, 0.8 mi northeast of Randolph, Vt.	6.27	-	6-30-73	†900
Black River	Connecticut River	Lat 43°23'22", long 72°33'42", Windsor County, 1.3 mi west of the east limit of Cavendish, Vt.	111	-	6-30-73	†15,100
North Branch Black River	Black River	Lat 43°26'36", long 72°32'03", Windsor County, at Reading-Cavendish town line, 0.9 mi south of Felchville, Vt.	17.7	-	7- 1-73	†5,760
Great Brook	do	Lat 43°20'08", long 72°32'31", Windsor County, at bridge on State Highway 10, 0.9 mi west of North Springfield, Vt.	11.0	-	6-30-73	†880
Williams River	Connecticut River	Lat 43°15'44", long 72°35'00", Windsor County, at bridge on State Highway 11, 0.2 mi above Middle Branch, 0.6 mi east of Chester, Vt.	38.6	-	7- 1-73	†3,560
Dry Brook	do	Lat 42°38'31", long 72°29'53", Franklin County, at culvert on Main Rd., 0.1 mi northeast of Gill, Mass.	7.63	1971-72	3-22-73b	36
Fall River e/	do	Lat 42°41'15", long 72°32'43", Franklin County, at bridge on Burke Falls Rd., 1.0 mi northeast of Bernardston, Mass.	25.6	1971-72	3-22-73b	100
Fall River	do	Lat 42°35'50", long 72°33'05", Franklin County, at bridge on State Highway 2 at Greenfield - Gill line, 3.1 mi northeast of center of Greenfield, Mass.	-	-	8- 7-73 8- 9-73 8-11-73 8-13-73 8-13-73	21 c22 7.0 23 c8
Cold Brook	Sawmill River	Lat 42°30'13", long 72°28'52", Franklin County, at culvert on Lake View Rd., 3.3 mi east of North Leverett, Mass.	1.97	1971-72	3-20-73b	0.6

† Operated as a continuous-record gaging station.
b Record of chemical analyses for this date in Part 2 of this report.
c Field estimate.
d At streamgage site, 0.8 mi downstream.
e Published erroneously as Falls River in 1971 and 1972 reports.

Discharge measurements made at miscellaneous sites during water year 1973.--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Connecticut River basin--Continued				
Long Plain Brook	Connecticut River	Lat 42°27'28", long 72°31'23", Franklin County, at culvert on Central Vermont Railroad, 200 ft west of State Highway 63, 1.2 mi northwest of Leverett, Mass.	2.23	1971-72	3-22-73b	8.2
Roaring Brook	do	Lat 42°26'18", long 72°28'59", Franklin County, at culvert on Cushman Rd., at East Leverett, Mass.	7.29	1971-72	3-20-73b	29
Roaring Brook	Mill River	Lat 42°28'19", long 72°40'21", Franklin County, at culvert on Roaring Brook Rd., 2.9 mi southeast of Conway, Mass.	3.09	1971-72	3-22-73b	18
Hop Brook	Fort River	Lat 42°20'31", long 72°29'38", Hampshire County, at culvert on Station Rd., 0.5 mi east of South Amherst, Mass.	14.7	1971-72	3-20-73b	44
Fort River	Connecticut River	Lat 42°19'59", long 72°34'44", Hampshire County, at bridge on State Highway 47, 0.7 mi above mouth, 0.8 mi southeast of Hadley, Mass.	-	-	8- 8-73	24
Mill River tributary	Mill River	Lat 42°19'16", long 72°39'15", Hampshire County, at culvert on Federal St., Northampton, Mass., 300 ft above mouth.	-	1972	3-23-73b	1.6
Manhan River	Connecticut River	Lat 42°15'59", long 72°41'31", Hampshire County, at bridge on Loudville Rd., 1.0 mi west of Easthampton, Mass.	58.3	1971-72	3-23-73b	158
Manhan River	do	Lat 42°16'58", long 72°37'56", Hampshire County, at destroyed bridge on River St., 0.3 mi above mouth, 2.3 mi northeast of Easthampton, Mass.	-	-	8- 7-73 8- 9-73 9-11-73 9-12-73 9-13-73	77 71 37 53 c37
Broad Brook	Manhan River	Lat 42°11'36", long 72°40'31", Hampden County, at culvert on Rock Valley St., 2.8 mi west of Holyoke, Mass.	f1.48	1957-58, 1971-72	3-23-73b	5.0
Bachelor Brook	Connecticut River	Lat 42°16'12", long 72°35'14", Hampshire County, at bridge on State Highway 47, 1.0 mi northwest of South Hadley, Mass., and 1.0 mi above mouth.	31.1	1955f, 1965, 1971-72	3-20-73b 8- 7-73 8- 9-73 9-10-73 9-12-73 9-13-73	199 37 28 6.5 c6.5 c6.5
Stony Brook	do	Lat 42°14'42", long 72°34'50", Hampshire County, 650 ft below bridge on State Highway 116, 20 ft below unnamed tributary, and 1.0 mi south of South Hadley, Mass.	-	-	8- 7-73 8- 9-73 9-10-73 9-12-73 9-13-73	16 c16 3.3 c3 c3
Buttery Brook	do	Lat 42°12'54", long 72°35'40", Hampshire County, at culvert on Main St., South Hadley Falls, Mass., 1,000 ft above mouth.	-	1972	3-21-73	5.6
North Branch Mill River	Mill River	Lat 42°07'02", long 72°28'10", Hampden County, at culvert on Springfield St., 2.1 mi west of Wilbraham, Mass.	f7.27	1957-58, 1971-72	3-21-73b	16
Mill River	Connecticut River	Lat 42°05'23", long 72°34'03", Hampden County, 75 ft above Hancock St. Bridge, at Springfield, Mass., 0.2 mi below Watershops Pond, and 1.0 mi above mouth.	33.9	1938-51f, 1972	3-21-73b	88
Pecousic Brook	do	Lat 42°03'30", long 72°35'04", Hampden County, at culvert on Dwight Rd., at south limits of Springfield, Mass.	-	1971-72	3-21-73b	2.6
[illegible] Brook	[illegible] Brook	Lat [illegible], long [illegible], at bridge on State Highway [illegible], 3 mi [illegible] of Agawam, Mass.	5.30	[illegible], [illegible], [illegible]	[illegible]	[illegible]
		Housatonic River basin				
Green River	Housatonic River	Lat [illegible], long [illegible], Berkshire County, at [illegible] Rd. Bridge, [illegible] mi below [illegible] Brook, [illegible] mi west of Great Barrington, Mass., and 2 mi above mouth.	[illegible]	[illegible]	[illegible]	[illegible]

a Operated as a continuous-record gaging station.
b Record of chemical analyses for this date in Part 2 of this report.
c Field estimate.
f Revised.

PART 2. WATER QUALITY RECORDS

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01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.

LOCATION.--Lat 42°28'47", long 71°41'04", Worcester County, multiple-parameter monitor on right bank 600 ft (200 m) downstream from bridge at Ponakin Mill, 0.6 mi (1.0 km) upstream from Ponakin Brook, 0.9 mi (1.4 km) northwest of North Village, and 5 mi (8 km) downstream from gaging station near North Leominster.

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter records in water year 1973).

Water temperatures: October 1968 to current year (no winter records in water year 1973).

EXTREMES.--Current year:

Dissolved oxygen: Maximum not determined; minimum, 1.5 mg/l June 14.

Water temperatures: Maximum, 28.0°C Aug. 10; minimum, probably freezing point several days during winter period.

Period of record:

Specific conductance: Maximum, 857 micromhos Jan. 29, 1970; minimum, 70 micromhos Apr. 23, 1969.

pH: Maximum, 7.9 Sept. 13, 14, 1969; minimum, 4.8 Aug. 28, 1972.

Dissolved oxygen: Maximum, 14.8 mg/l Mar. 6, 1971; minimum, 0.0 mg/l July 26, 30, 1970, June 22, 1971.

Water temperatures: Maximum, 30.0°C July 29, 1970; minimum, freezing point several days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station near Leominster, are available at district office. Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	281	218	250	---	---	---
2	252	221	235	---	---	---
3	264	222	246	159	131	140
4	262	233	245	161	129	140
5	265	240	251	154	138	143
6	---	---	---	156	135	144
7	---	---	---	154	135	143
8	---	---	---	176	149	159
9	---	---	---	175	143	157
10	---	---	---	168	122	154
11	244	201	219	168	111	163
12	259	227	240	119	105	113
13	260	220	237	---	---	---
14	250	214	226	---	---	---
15	248	225	232	---	---	---
16	232	218	225	---	---	---
17	262	209	220	---	---	---
18	262	239	251	---	---	---
19	271	238	248	---	---	---
20	256	234	245	134	90	119
21	273	245	255	116	81	92
22	294	252	270	95	76	87
23	263	242	253	86	72	77
24	253	208	228	84	78	80
25	271	216	233	---	---	---
26	287	234	256	---	---	---
27	290	236	254	---	---	---
28	283	260	266	---	---	---
29	282	193	231	---	---	---
30	222	198	208	---	---	---
31	233	204	211	---	---	---
MONTH	294	193	240	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	159	119	147	101	91	95	235	216	225	281	197	228
2	173	145	155	124	98	108	232	122	195	229	204	211
3	160	143	150	151	120	132	154	123	141	247	231	238
4	155	131	140	197	134	148	174	123	149	246	224	231
5	189	131	165	135	129	129	153	130	135	236	212	223
6	199	170	185	163	133	146	158	143	150	281	236	257
7	200	175	186	188	163	173	205	160	185	252	223	234
8	199	177	185	196	176	183	200	176	184	250	222	234
9	198	113	180	192	182	186	235	180	196	256	235	243
10	192	152	164	198	183	188	266	216	223	268	212	241
11	183	166	175	225	167	192	248	219	230	253	221	237
12	[illegible]	181	216	216	198	207	252	215	233	282	252	262
13	206	157	196	251	208	229	263	230	248	299	270	285
14	176	118	141	240	223	230	255	220	230	295	274	280
15	183	163	172	238	212	222	261	222	239	302	266	280
16	204	180	190	[illegible]	[illegible]	[illegible]	250	180	206	282	255	271
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	261	209	221	290	229	253
18	[illegible]	[illegible]	[illegible]	---	---	---	261	248	257	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---
20	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---
21	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]									

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01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.7	6.8	---	---	---
2	7.1	6.6	6.8	---	---	---
3	7.2	6.8	7.0	6.1	5.6	5.8
4	7.0	6.6	6.9	6.2	5.8	6.0
5	6.9	6.6	6.7	6.5	5.9	6.2
6	---	---	---	6.6	6.2	6.4
7	---	---	---	6.7	5.9	6.3
8	---	---	---	6.7	6.0	6.3
9	---	---	---	6.7	6.2	6.5
10	---	---	---	6.5	6.0	6.2
11	6.8	6.7	6.7	6.4	5.7	6.1
12	6.7	6.5	6.6	6.5	6.2	6.3
13	6.6	6.5	6.5	---	---	---
14	6.6	6.4	6.5	---	---	---
15	6.6	6.4	6.5	---	---	---
16	6.6	6.4	6.5	---	---	---
17	6.7	6.5	6.6	---	---	---
18	6.7	6.5	6.6	---	---	---
19	6.5	6.5	6.5	---	---	---
20	6.8	6.5	6.7	---	---	---
21	6.7	6.5	6.6	---	---	---
22	6.6	6.5	6.6	---	---	---
23	6.7	6.5	6.6	---	---	---
24	---	---	---	---	---	---
25	6.6	6.4	6.5	---	---	---
26	6.7	6.5	6.6	---	---	---
27	6.8	6.5	6.6	---	---	---
28	6.6	6.4	6.6	---	---	---
29	6.5	6.3	6.4	---	---	---
30	6.5	6.3	6.5	---	---	---
31	6.7	6.5	6.6	---	---	---
MONTH	7.2	6.3	6.6	---	---	---

	JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	6.6	6.8	6.8	6.3	6.6
2	---	---	---	6.8	6.4	6.6	6.7	6.3	6.5
3	---	---	---	6.4	6.2	6.3	6.6	6.2	6.4
4	---	---	---	6.4	6.0	6.2	6.5	6.1	6.3
5	---	---	---	6.4	6.1	6.3	6.1	6.0	6.1
6	---	---	---	6.3	6.1	6.3	6.2	5.9	6.0
7	---	---	---	6.3	6.1	6.2	---	---	---
8	---	---	---	6.3	6.2	6.2	---	---	---
9	---	---	---	6.5	6.3	6.4	---	---	---
10	---	---	---	6.9	6.2	6.6	---	---	---
11	---	---	---	6.3	6.2	6.3	6.9	6.5	6.7
12	---	---	---	6.4	6.2	6.3	6.8	6.3	6.5
13	6.8	6.3	6.5	6.5	6.4	6.4	7.0	6.1	6.4
14	6.5	6.1	6.3	6.5	6.5	6.5	6.8	6.1	6.5
15	6.3	6.1	6.2	6.7	6.5	6.6	6.8	6.3	6.6
16	6.6	5.8	6.3	6.6	6.4	6.5	6.7	6.0	6.3
17	6.6	6.2	6.4	6.6	6.3	6.5	6.3	5.9	6.0
18	---	---	---	6.6	6.3	6.4	6.2	5.9	6.1
19	---	---	---	6.5	6.3	6.4	---	---	---
20	---	---	---	6.5	6.3	6.4	---	---	---
21	---	---	---	6.6	6.2	6.3	7.1	6.7	6.9
22	---	---	---	6.5	6.2	6.3	7.6	6.6	7.1
23	---	---	---	---	---	---	7.6	6.9	7.3
24	---	---	---	---	---	---	7.6	6.7	7.0
25	---	---	---	---	---	---	7.6	6.7	7.0
26	---	---	---	---	---	---	7.0	6.6	6.8
27	---	---	---	---	---	---	7.1	6.6	6.7
28	---	---	---	---	---	---	6.8	6.6	6.6
29	---	---	---	7.2	6.6	6.9	6.7	6.1	6.4
30	7.0	6.0	6.5	6.9	6.5	6.5	6.8	6.0	6.4
31	6.7	6.0	6.4	6.8	6.4	6.6	---	---	---
MONTH	---	---	---	7.2	6.0	6.4	7.6	5.9	6.6
PERIOD	7.6	5.6	6.5						

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	4.1	5.4	---	---	---
2	7.8	5.4	6.5	---	---	---
3	7.4	5.2	6.1	8.9	7.4	7.9
4	6.3	4.1	5.3	9.3	7.2	8.3
5	6.3	3.8	4.8	8.5	7.0	7.7
6	---	---	---	7.9	6.6	7.4
7	---	---	---	8.5	6.7	7.7
8	---	---	---	8.2	6.4	7.4
9	---	---	---	8.4	6.7	7.4
10	---	---	---	8.9	6.0	7.8
11	8.0	7.2	7.7	8.4	7.0	7.8
12	7.2	6.2	6.9	9.0	7.3	8.3
13	6.9	6.1	6.5	---	---	---
14	7.8	6.6	7.3	---	---	---
15	7.3	6.3	6.8	---	---	---
16	8.5	7.1	7.7	---	---	---
17	7.4	6.5	7.0	---	---	---
18	7.9	6.5	7.3	---	---	---
19	8.0	7.0	7.5	---	---	---
20	8.8	7.5	8.3	9.3	6.8	8.3
21	9.4	8.3	8.8	9.7	6.8	9.0
22	8.6	7.6	8.1	9.5	7.2	8.5
23	8.3	6.2	7.3	7.8	5.3	6.5
24	7.4	5.8	6.6	5.8	5.4	5.6
25	7.6	5.9	6.8	---	---	---
26	8.3	6.4	7.6	---	---	---
27	8.5	7.0	7.8	---	---	---
28	7.9	5.7	7.0	---	---	---
29	5.7	4.5	4.9	---	---	---
30	7.7	5.8	6.6	---	---	---
31	8.7	6.7	7.8	---	---	---
MONTH	9.4	3.8	6.9	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.1	6.6	---	---	---	5.8	4.0	4.7	[illegible]	[illegible]	[illegible]
2	7.2	6.0	6.6	---	---	---	5.4	4.2	4.7	[illegible]	[illegible]	[illegible]
3	7.6	6.4	7.0	8.5	4.3	5.7	6.1	4.8	5.5	[illegible]	[illegible]	[illegible]
4	7.6	6.6	7.0	6.0	4.6	5.4	5.6	4.2	5.0	[illegible]	[illegible]	[illegible]
5	7.4	6.1	6.8	6.8	5.7	6.2	---	---	---	[illegible]	[illegible]	[illegible]
6	8.1	5.9	6.9	6.7	5.3	[illegible]	5.8	4.6	5.1	[illegible]	[illegible]	[illegible]
7	8.5	6.2	7.1	6.5	4.9	5.7	[illegible]	[illegible]	[illegible]	---	---	---
8	9.1	5.8	7.1	6.0	5.0	5.5	[illegible]	[illegible]	[illegible]	---	---	---
9	8.9	4.5	6.7	6.3	4.8	5.6	[illegible]	[illegible]	[illegible]	---	---	---
10	8.8	4.5	6.2	6.7	4.9	5.7	[illegible]	[illegible]	[illegible]	---	---	---
11	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---
20	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---
21	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
24	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
25	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
26	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
27	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
28	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
29	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
31				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
MONTH	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]									

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	15.5	16.5	---	---	---
2	15.0	12.5	13.5	---	---	---
3	15.5	12.5	14.0	17.5	16.0	17.0
4	16.5	14.5	16.0	16.0	15.0	15.5
5	17.0	15.5	16.0	14.5	12.5	13.5
6	---	---	---	13.0	11.5	12.5
7	---	---	---	15.5	11.0	13.5
8	---	---	---	15.5	12.5	14.0
9	---	---	---	15.0	13.5	13.5
10	---	---	---	16.0	13.5	14.5
11	13.5	12.0	13.0	15.5	14.5	15.0
12	14.5	12.5	13.5	15.0	13.5	14.5
13	15.0	13.5	14.0	---	---	---
14	13.5	10.5	12.0	---	---	---
15	13.5	10.5	12.5	---	---	---
16	11.0	9.5	10.5	---	---	---
17	12.5	11.0	11.5	---	---	---
18	11.5	10.0	11.0	---	---	---
19	11.5	10.0	10.5	---	---	---
20	10.0	8.0	9.0	14.5	12.0	13.0
21	9.5	7.0	8.5	14.0	12.5	13.5
22	10.5	9.5	10.0	14.5	13.0	13.5
23	13.0	11.0	12.0	16.5	12.5	14.0
24	14.5	12.5	14.0	16.0	14.5	15.0
25	14.0	12.0	13.0	---	---	---
26	12.0	10.5	11.5	---	---	---
27	11.5	9.5	11.0	---	---	---
28	14.0	11.0	12.0	---	---	---
29	15.5	12.5	14.5	---	---	---
30	12.5	9.5	11.5	---	---	---
31	10.5	8.0	9.5	---	---	---
MONTH	18.0	7.0	12.5	---	---	---

	JUNE			JULY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	---	---	---
19	[illegible]	[illegible]	[illegible]	---	---	---
20	[illegible]	[illegible]	[illegible]	---	---	---
21	[illegible]	[illegible]	[illegible]	---	---	---
22	[illegible]	[illegible]	[illegible]	---	---	---
23	[illegible]	[illegible]	[illegible]	---	---	---
24	---	---	---	---	---	---
25	---	---	---	---	---	---
26	---	---	---	---	---	---
27	---	---	---	---	---	---
28	---	---	---	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	[illegible]	[illegible]	[illegible]	---	---	---
YEAR	[illegible]	[illegible]	[illegible]			

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	---	---	---
19	[illegible]	[illegible]	[illegible]	---	---	---
20	[illegible]	[illegible]	[illegible]	---	---	---
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	---	---	---	[illegible]	[illegible]	[illegible]
27	---	---	---	[illegible]	[illegible]	[illegible]
28	---	---	---	[illegible]	[illegible]	[illegible]
29	---	---	---	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 42°38'20", long 71°22'17", Middlesex County, two-parameter monitor on left bank at intake of Lowell water treatment plant, 2.7 mi (4.3 km) upstream from Pawtucket Dam, and 6 mi (9.7 km) downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.
Water temperatures: January to September 1973.

EXTREMES.--January to September 1973:
Specific conductance: Maximum, 438 micromhos Apr. 30; minimum, 27 micromhos May 17, 18.
Water temperatures: Maximum, 28.5°C Aug. 11, 12, Sept. 3-5; minimum, freezing point on many days during winter period.

REMARKS.--Additional chemical analyses for this station in pesticide table and in table of composited samples. Discharge computed on basis of records for gaging station below Concord River (sta. 01100000) and gaging station on Concord River (sta. 01099500).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)
OCT. 03...	1015	2690	150	5.4	7.2	16.0	16.5	30000	400	--	--
NOV. 06...	1000	5740	98	9.5	6.7	7.5	10.5	260000	780	--	--
DEC. 05...	0800	10700	80	--	7.3	.5	.0	34000	2400	--	--
JAN. 17...	0830	7240	96	12.7	7.2	.0	8.6	26000	530	2200	150
FEB. 13...	1030	11800	85	13.8	6.7	.0	.0	7500	300	800	3600
MAR. 06...	1330	9680	100	13.1	6.8	3.0	9.0	7300	250	620	190
APR. 09...	1330	27000	58	12.3	6.4	5.5	11.0	5700	540	390	200
MAY 14...	1100	16800	55	9.9	6.6	13.5	22.0	8500	640	130	1200
JUNE 11...	1200	6300	96	7.7	7.0	18.5	31.0	26000	600	52	1900
JULY 09...	1030	24300	45	8.4	6.3	22.0	39.0	43000	1100	240	350
AUG. 28...	0800	2250	140	5.5	7.1	24.0	26.0	110000	900	35	18000
SEP. 24...	1100	3850	122	5.7	6.8	16.5	17.5	220000	1300	63	3200

DATE	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
OCT. 03...	.70	2.5	.19	.0	14	8.2	3	--	--	--	--
NOV. 06...	.20	1.3	.12	.0	12	1.4	3	--	--	--	--
DEC. 05...	.20	.66	.05	.0	12	.8	3	--	--	--	--
JAN. 17...	.30	.80	.09	.0	10	.0	2	6.3	6.0	.9	9.2
FEB. 13...	.30	.77	.07	.0	13	.4	3	6.0	4.5	.8	7.2
MAR. 06...	.30	.78	.08	.0	10	1.5	1	6.3	5.5	.9	9.5
APR. 09...	.20	.37	.04	.0	9	.7	4	4.7	3.7	.6	4.7
MAY 14...	.20	.46	.05	.0	10	1.9	4	4.6	4.3	.6	4.9
JUNE 11...	.96	.84	.07	.0	19	4.4	3	4.9	5.2	.9	8.7
JULY 09...	.28	.20	.08	--	--	--	--	4.6	3.2	.6	3.8
AUG. 28...	2.2	--	.18	--	--	--	--	5.0	6.9	1.2	15
SEP. 24...	--	1.4	.17	--	--	--	--	4.6	6.5	1.3	13

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
JAN. 17...	1.1	14	0	11	11	13	.1	--	57	5	19
FEB. 13...	.7	8	0	7	9.0	11	.1	51	45	4	15
MAR. 06...	.9	11	0	9	9.2	15	.3	66	55	4	17
APR. 09...	.6	5	0	4	8.0	6.0	.8	--	33	--	12
MAY 14...	.7	6	--	5	8.5	6.0	.4	41	34	12	13
JUNE 11...	1.1	8	0	7	8.5	12	.2	55	50	6	17
JULY 09...	.2	5	0	4	5.5	5.0	.3	37	27	--	10
AUG. 28...	--	9	--	7	9.2	19	.3	88	71	--	22
SEP. 24...	1.7	9	0	7	9.7	17	.3	68	59	--	22

DATE	NONCARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA ORGANIC NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JAN. 17...	7	1.4	--	.00	.65	--	1.1	--	--	--	--
FEB. 13...	8	2.6	--	.07	.30	--	1.8	--	--	--	--
MAR. 06...	8	2.8	--	.01	.46	--	.72	--	--	--	--
APR. 09...	8	3.2	5.5	.00	.28	--	.28	--	--	--	--
MAY 14...	8	2.4	--	.00	.29	--	.17	--	--	--	--
JUNE 11...	10	1.3	--	.00	.10	--	--	--	--	--	--
JULY 09...	6	4.0	8.5	.00	.00	--	--	--	--	--	--
AUG. 28...	15	1.1	--	.00	.01	1.3	--	--	--	--	--
SEP. 24...	14	2.3	--	--	--	--	.00	2.0	.00	1.4	3.4

DATE	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
APR. 09...	--	110	--	50	0	0	--	--	0	0	0
JULY 09...	2200	210	90	30	--	0	10	0	--	1	0

DATE	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR. 09...	10	0	3	0	--	<.5	--	--	10	0
JULY 09...	40	20	5	2	<.5	<.5	2	1	20	40

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	DATE	TIME	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)
APR.					SEP.				
06...	0200	3.5	51	12.9	08...	0200	24.5	131	4.0
06...	0400	3.5	50	12.8	08...	0400	23.9	136	3.8
06...	0600	3.5	49	12.6	08...	0600	23.8	139	3.2
06...	0800	3.5	50	12.9	08...	0800	23.7	140	3.5
06...	1000	3.5	50	12.9	08...	1000	23.5	141	4.0
06...	1200	4.0	50	12.8	08...	1200	23.5	140	4.2
06...	1400	4.0	49	12.8	08...	1400	23.8	139	5.0
06...	1600	4.0	48	12.8	08...	1600	24.1	137	4.2
06...	1800	4.0	49	12.8	08...	1800	24.3	136	5.0
06...	2000	4.0	49	13.0	08...	2000	24.1	133	6.0
06...	2200	4.0	49	12.8	08...	2200	23.6	132	6.0
06...	2400	4.0	50	12.8	08...	2400	23.4	131	6.0
09...	1330	5.5	58	12.3	24...	1100	16.5	122	5.7

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), JANUARY TO SEPTEMBER 1973

	JANUARY				JANUARY		
DAY	MAX	MIN	MEAN	DAY	MAX	MIN	MEAN
1	---	---	---	16	98	94	96
2	---	---	---	17	99	95	97
3	---	---	---	18	101	96	99
4	---	---	---	19	107	100	103
5	---	---	---	20	108	96	101
6	---	---	---	21	102	91	98
7	---	---	---	22	90	81	84
8	---	---	---	23	87	79	82
9	---	---	---	24	82	77	79
10	96	92	94	25	77	70	74
11	96	92	94	26	75	70	71
12	101	97	99	27	74	71	72
13	100	96	98	28	75	72	74
14	100	96	98	29	75	72	74
15	99	94	97	30	81	70	76
				31	82	77	81

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	86	81	84	97	93	96	64	62	63	409	387	399
2	104	83	89	99	96	98	64	60	62	393	378	383
3	142	94	111	102	96	99	60	53	56	386	368	378
4	119	89	99	109	99	103	52	46	49	389	349	363
5	87	75	79	104	97	101	54	45	48	355	345	351
6	75	71	72	98	96	97	51	48	50	354	309	321
7	75	71	72	97	90	93	50	46	48	330	306	324
8	79	75	76	92	89	90	47	45	46	344	330	335
9	84	79	80	93	84	88	47	44	45	355	338	346
10	83	80	81	85	77	81	49	45	47	344	299	327
11	83	81	82	76	72	74	50	48	49	303	291	297
12	86	79	82	74	72	72	50	48	49	312	41	184
13	88	84	86	74	68	71	50	48	49	74	31	49
14	92	88	90	67	63	65	52	49	51	61	49	55
15	93	90	92	63	60	61	53	50	51	51	33	41
16	100	94	97	60	59	59	52	50	51	58	34	46
17	97	90	94	61	60	60	52	51	52	55	27	39
18	93	86	90	61	55	58	52	49	51	49	27	40
19	93	88	91	57	53	55	50	46	48	64	32	45
20	94	89	91	58	51	53	48	43	45	68	44	58
21	100	92	95	55	52	53	43	40	41	105	51	71
22	99	94	96	58	54	55	137	37	78	90	50	65
23	98	94	96	62	58	60	102	44	60	61	55	57
24	98	95	97	66	61	63	123	61	93	55	55	55
25	99	96	98	67	64	65	357	124	251	57	55	56
26	99	95	97	66	65	65	410	247	348	58	57	57
27	102	95	99	68	64	66	367	302	322	63	58	61
28	99	94	96	65	61	63	358	308	331	68	63	65
29	---	---	---	62	60	61	434	358	406	70	68	69
30	---	---	---	62	60	61	438	385	401	74	70	71
31	---	---	---	63	61	61	---	---	---	72	69	70
MONTH	142	71	90	109	51	72	438	37	111	409	27	164

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), JANUARY TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	71	69	70	73	55	64	125	114	120	125	122	124
2	71	69	70	55	50	52	131	118	124	134	122	125
3	71	69	70	50	49	49	121	103	113	146	135	142
4	72	68	71	48	47	47	104	82	92	138	129	134
5	74	73	73	48	47	47	85	82	83	135	113	125
6	77	73	75	49	48	49	86	83	84	133	112	125
7	78	75	76	50	48	49	85	82	84	131	117	122
8	81	77	79	52	50	51	89	85	87	141	128	136
9	85	80	83	52	50	51	94	88	90	131	124	127
10	89	85	87	53	52	52	99	91	94	148	127	139
11	89	85	87	54	51	52	104	93	98	136	114	124
12	101	88	90	57	53	55	103	93	98	119	112	115
13	103	92	95	58	56	57	98	92	96	126	112	119
14	100	92	95	66	58	62	102	88	96	136	127	131
15	96	90	93	71	66	69	105	92	99	143	133	139
16	91	87	89	76	71	74	109	93	101	143	132	136
17	87	81	85	79	75	77	124	97	105	152	137	145
18	82	80	81	80	76	78	123	110	117	156	142	150
19	79	74	76	86	80	83	149	114	136	142	130	138
20	76	73	74	88	84	86	131	115	123	132	120	124
21	85	77	81	91	86	87	124	110	115	140	130	135
22	85	82	83	96	89	92	126	117	121	145	131	139
23	102	83	89	104	96	101	133	123	128	138	129	134
24	100	90	93	103	97	100	142	125	136	133	121	127
25	91	87	89	110	99	105	140	136	138	121	112	118
26	91	87	89	111	103	107	149	138	142	113	109	111
27	96	87	91	116	106	112	154	131	146	110	106	108
28	97	89	91	123	110	117	138	116	129	114	108	110
29	96	87	92	123	113	118	124	117	121	110	108	109
30	89	74	83	119	116	117	130	122	125	116	109	113
31	---	---	---	118	113	116	137	122	132	---	---	---
MONTH	103	68	83	123	47	77	154	82	112	156	106	127
YEAR	438	27	103									

TEMPERATURE (°C) OF WATER, JANUARY TO SEPTEMBER 1973

	JANUARY		
DAY	MAX	MIN	MEAN
1	---	---	---
2	---	---	---
3	---	---	---
4	---	---	---
5	---	---	---
6	---	---	---
7	---	---	---
8	---	---	---
9	---	---	---
10	1.0	1.0	1.0
11	1.0	0.5	1.0
12	1.0	0.5	1.0
13	1.0	0.5	0.5
14	0.5	0.5	0.5
15	0.5	0.5	0.5
16	0.5	0.0	0.5
17	0.5	0.0	0.0
18	0.5	0.0	0.0
19	0.5	0.0	0.0
20	0.5	0.0	0.0
21	0.5	0.0	0.0
22	0.0	0.0	0.0
23	0.5	0.0	0.5
24	0.5	0.5	0.5
25	0.5	0.0	0.5
26	0.5	0.0	0.5
27	1.0	0.5	0.5
28	0.5	0.0	0.5
29	0.0	0.0	0.0
30	0.0	0.0	0.0
31	0.0	0.0	0.0
MONTH	---	---	---

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

TEMPERATURE (°C) OF WATER, JANUARY TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	1.0	0.5	1.0	5.5	5.0	5.5	11.5	10.5	11.0
2	0.0	0.0	0.0	2.0	1.0	1.5	6.0	5.5	6.0	12.5	11.5	12.0
3	0.0	0.0	0.0	2.0	1.5	1.5	5.5	4.5	5.0	14.0	12.5	13.0
4	0.0	0.0	0.0	1.5	1.5	1.5	4.0	3.5	4.0	14.0	13.5	14.0
5	0.5	0.0	0.5	2.5	1.5	2.0	3.5	3.0	3.5	14.0	13.5	14.0
6	0.5	0.0	0.0	2.5	2.0	2.0	4.0	3.5	4.0	13.5	12.5	13.0
7	0.5	0.0	0.5	2.5	2.0	2.0	5.0	4.0	4.5	13.5	12.5	13.0
8	0.5	0.5	0.5	2.5	2.0	2.0	5.0	5.0	5.0	14.0	13.0	13.5
9	0.5	0.0	0.5	2.5	1.5	2.0	5.5	5.0	5.5	14.0	13.5	14.0
10	0.0	0.0	0.0	2.0	2.0	2.0	5.5	5.0	5.5	14.5	13.5	14.0
11	0.0	0.0	0.0	1.5	1.5	1.5	5.0	4.5	5.0	14.5	14.0	14.0
12	0.0	0.0	0.0	2.5	1.5	2.0	4.5	4.0	4.5	14.5	14.0	14.0
13	0.0	0.0	0.0	3.0	2.0	2.5	5.0	4.0	4.5	14.0	13.5	14.0
14	0.5	0.0	0.0	3.0	2.0	2.5	5.5	4.5	5.0	14.5	13.5	14.0
15	0.5	0.0	0.5	2.0	1.5	2.0	6.5	5.0	6.0	14.0	13.5	14.0
16	0.5	0.0	0.5	2.0	1.5	2.0	8.0	6.5	7.0	14.0	13.0	13.5
17	0.0	0.0	0.0	2.5	2.0	2.5	9.0	8.0	8.5	14.0	13.0	13.5
18	0.0	0.0	0.0	2.5	2.0	2.5	10.0	9.0	9.5	13.5	12.5	13.0
19	0.0	0.0	0.0	2.0	1.5	2.0	11.0	9.5	10.0	12.0	11.5	12.0
20	0.0	0.0	0.0	2.0	1.5	2.0	11.5	10.5	11.0	11.5	11.0	11.5
21	1.0	0.0	0.5	2.0	1.5	2.0	11.5	11.0	11.5	11.0	11.0	11.0
22	1.5	1.0	1.5	2.0	1.5	1.5	12.5	11.5	12.0	11.0	10.5	10.5
23	1.5	1.0	1.0	2.5	1.5	2.0	14.0	12.5	13.0	11.0	10.5	10.5
24	1.5	0.5	1.0	3.5	2.5	3.0	14.5	14.0	14.0	11.5	11.0	11.5
25	1.0	0.5	0.5	4.0	3.0	3.5	14.0	13.5	13.5	12.0	11.5	11.5
26	1.0	0.5	1.0	5.0	4.0	4.5	13.5	12.5	13.0	11.5	11.0	11.5
27	1.0	0.5	0.5	5.5	4.5	5.0	12.5	11.5	12.0	12.5	11.0	12.0
28	1.0	0.0	0.5	5.5	4.5	5.0	11.5	11.0	11.5	12.5	12.0	12.5
29	---	---	---	5.0	4.5	5.0	11.0	10.5	10.5	13.5	12.5	13.0
30	---	---	---	5.5	5.0	5.0	11.0	10.0	10.5	14.5	13.0	14.0
31	---	---	---	5.5	5.0	5.0	---	---	---	15.5	14.5	15.0
MONTH	1.5	0.0	0.5	5.5	0.5	2.5	14.5	3.0	8.0	15.5	10.5	13.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.0	16.0	22.5	21.0	22.0	26.0	25.0	25.5	27.5	26.0	27.0
2	16.5	16.0	16.5	21.0	20.5	21.0	26.0	25.0	25.5	28.0	27.0	27.0
3	17.0	16.0	16.5	21.0	20.0	20.5	25.5	24.5	25.0	28.5	27.0	27.5
4	17.0	16.5	17.0	21.0	20.5	20.5	25.5	24.5	25.0	28.5	26.5	27.5
5	17.5	17.0	17.0	20.5	20.5	20.5	25.5	24.5	25.0	28.5	27.5	28.0
6	17.0	16.5	17.0	21.0	20.0	20.5	26.0	24.5	25.0	27.5	26.0	26.5
7	18.0	16.5	17.5	22.0	20.5	21.0	26.5	25.0	26.0	26.0	24.5	25.0
8	19.0	17.5	18.0	22.5	21.5	22.0	27.0	25.5	26.5	24.5	23.5	24.0
9	20.0	18.5	19.5	23.0	22.0	22.5	27.5	26.0	27.0	23.5	22.5	23.0
10	21.0	19.5	20.5	23.0	22.0	22.5	28.0	26.5	27.5	22.5	21.0	22.0
11	21.5	20.0	21.0	22.5	22.0	22.5	28.5	27.0	28.0	22.0	20.5	21.0
12	23.0	21.5	22.0	22.5	22.0	22.0	28.5	27.0	27.5	21.5	20.5	21.5
13	23.0	22.0	22.5	22.0	21.5	22.0	28.0	26.5	27.0	21.5	20.5	21.0
14	22.5	21.5	22.0	23.5	22.0	22.5	26.5	25.0	25.5	22.0	20.0	21.0
15	22.5	21.5	22.0	23.0	22.5	23.0	25.5	24.5	24.5	20.5	20.0	20.0
16	21.5	20.0	21.0	22.5	21.5	22.0	24.5	23.0	24.0	20.5	19.0	19.5
17	21.0	19.5	20.0	23.0	22.0	22.5	25.0	23.0	23.5	19.5	18.0	19.0
18	19.5	19.0	19.5	22.5	22.0	22.5	24.5	23.5	24.0	19.5	18.0	18.5
19	19.5	18.5	19.0	24.0	22.0	22.5	24.5	24.0	24.5	19.0	18.0	18.0
20	20.0	19.5	20.0	24.5	23.0	23.5	25.5	24.0	24.5	18.5	17.0	18.0
21	21.5	20.0	21.0	24.0	23.0	23.5	25.5	23.5	24.5	18.5	17.5	18.0
22	22.0	21.0	21.5	25.0	23.0	23.5	24.0	23.0	23.5	17.5	16.5	17.0
23	22.0	21.0	22.0	25.5	23.0	24.0	24.0	23.0	23.5	17.5	16.5	17.0
24	23.5	22.0	22.5	26.0	23.5	24.5	23.5	23.0	23.5	18.0	16.0	17.0
25	23.0	22.5	23.0	26.5	24.0	25.0	24.0	23.0	23.5	17.5	16.0	16.5
26	22.5	22.0	22.5	26.0	24.0	25.0	24.0	23.0	23.5	16.5	16.0	16.0
27	22.0	21.5	22.0	25.5	23.5	24.5	24.5	23.5	24.0	17.0	16.0	16.5
28	22.5	21.5	22.0	26.0	23.5	25.0	25.5	24.0	25.0	18.0	16.5	17.0
29	23.5	22.5	23.0	26.0	24.5	25.5	26.0	24.5	25.5	17.5	16.5	17.0
30	23.0	22.5	22.5	27.0	24.5	25.5	27.0	25.5	26.0	18.0	16.5	17.0
31	---	---	---	27.0	25.0	25.5	27.0	26.0	26.5	---	---	---
MONTH	23.5	15.0	20.0	27.0	20.0	23.0	28.5	23.0	25.0	28.5	16.0	21.0
YEAR	28.5	0.0	13.0									

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.

LOCATION.--Lat 42°27'10", long 71°34'52", Worcester County, two-parameter monitor at culvert on Brown Road, 400 ft (122 m) upstream from Interstate Highway 495, 0.3 mi (0.5 km) upstream from gaging station, and 1.1 mi (1.8 km) west of East Bolton.

PERIOD OF RECORD.--Chemical analyses: June 1971 to current year.
Water temperatures: June 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 115 micromhos Sept. 4; minimum, 49 micromhos June 27.
Water temperatures: Maximum observed, 25.5°C Sept. 4; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 195 micromhos Nov. 9, 1971; minimum, 49 micromhos June 27, 1973.
Water temperatures: Maximum, 26.5°C July 8, 1971; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station are in table of samples collected at miscellaneous sites. Figures of daily discharge, computed on basis of records for gaging station 0.3 mi (0.5 km) downstream, are available at district office. Recording air-temperature gage located at station since October 1972.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	101	96	98	103	99	101	73	71	72	78	68	72
2	107	100	103	105	86	98	75	73	74	75	71	73
3	109	100	105	99	89	95	75	73	74	78	75	77
4	108	103	105	101	99	100	76	73	74	79	77	78
5	111	105	109	101	96	99	75	70	72	77	77	77
6	110	105	108	101	95	97	75	57	70	82	77	79
7	110	67	91	97	95	96	68	62	65	88	83	85
8	101	89	97	99	85	95	72	69	71	90	87	89
9	102	99	101	84	71	77	72	69	71	91	88	90
10	101	97	99	88	83	86	71	70	71	89	86	88
11	99	96	98	91	89	90	72	71	72	89	85	87
12	100	94	97	93	90	91	74	72	73	87	84	86
13	101	91	96	95	93	94	74	72	73	88	85	86
14	101	98	100	95	76	92	74	73	74	87	84	85
15	100	97	98	78	72	76	74	71	74	86	84	85
16	100	97	98	81	77	80	75	70	73	87	84	86
17	100	97	98	88	81	84	77	75	76	85	83	84
18	99	96	97	84	83	83	77	76	77	85	79	82
19	97	94	96	88	85	87	77	75	76	83	77	81
20	94	91	92	86	60	70	75	73	74	78	69	73
21	93	88	90	78	73	76	75	73	74	81	78	80
22	96	91	93	79	78	78	75	70	74	83	80	82
23	97	93	95	81	79	80	76	74	75	72	61	67
24	99	95	97	80	78	79	76	75	75	65	64	65
25	98	95	97	80	78	79	76	74	75	67	65	66
26	98	94	96	77	63	70	76	75	76	68	66	67
27	102	96	98	76	72	74	76	75	76	68	67	67
28	107	101	104	77	75	76	78	76	77	68	66	67
29	100	93	95	78	77	77	79	77	78	68	65	66
30	101	96	99	77	72	76	80	79	79	71	66	69
31	103	99	101	---	---	---	80	78	79	70	58	68
MONTH	111	67	98	105	60	85	80	57	74	91	58	78

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	72	58	67	80	76	78	75	59	71	73	70	72
2	84	60	70	78	73	76	60	50	55	76	72	73
3	80	58	62	76	74	75	66	60	63	76	73	75
4	65	62	64	77	72	75	66	61	64	75	73	74
5	65	64	65	75	71	73	63	59	61	75	72	74
6	67	65	65	73	72	73	66	62	64	75	72	73
7	67	66	66	73	72	73	67	65	66	77	72	74
8	67	66	67	73	63	68	68	67	67	77	74	76
9	69	67	68	69	66	67	68	65	67	77	69	73
10	73	68	71	71	69	69	69	56	63	74	70	72
11	75	72	73	71	69	70	64	61	62	74	69	71
12	77	73	75	71	68	70	66	64	65	73	70	71
13	74	72	73	72	69	70	68	65	66	75	72	74
14	74	71	73	72	70	71	69	66	67	77	73	75
15	72	70	71	73	70	72	70	67	68	77	74	75
16	75	72	73	73	71	72	71	68	70	74	69	72
17	75	71	73	73	63	69	71	69	71	76	72	74
18	77	65	75	69	68	68	73	70	72	76	69	72
19	78	74	76	71	69	69	74	71	73	75	71	73
20	79	73	76	71	70	71	75	71	73	75	71	74
21	79	74	76	71	70	70	75	71	73	68	56	63
22	80	74	76	71	69	70	77	73	75	71	67	69
23	76	74	75	71	69	70	77	74	76	73	70	72
24	76	74	75	72	70	71	77	74	76	74	72	73
25	78	74	76	73	71	72	78	74	76	74	73	73
26	77	75	76	73	69	71	78	64	73	73	72	73
27	79	76	78	72	71	71	68	65	67	75	72	73
28	82	77	80	72	70	71	70	65	68	75	69	73
29	---	---	---	73	71	72	71	70	71	73	64	70
30	---	---	---	74	71	73	73	69	71	76	72	74
31	---	---	---	74	73	74	---	---	---	75	71	74
MONTH	84	58	72	80	63	71	78	50	68	77	56	73

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	76	74	75	68	63	66	---	---	98	100	90	95
2	78	75	76	72	68	70	---	---	79	103	91	97
3	78	76	77	75	71	73	---	---	78	112	100	103
4	78	76	78	75	71	74	---	---	84	115	102	111
5	78	77	78	72	67	70	---	---	89	114	104	109
6	80	77	78	74	69	71	---	---	93	110	87	103
7	80	78	79	77	72	75	---	---	95	93	88	89
8	81	79	80	79	74	77	---	---	97	95	88	91
9	81	71	78	81	77	79	---	---	98	94	89	91
10	80	75	77	81	78	79	---	---	100	101	93	96
11	82	78	80	79	75	78	93	88	89	111	99	105
12	83	75	81	79	75	77	94	87	90	111	100	104
13	79	67	71	80	76	78	93	90	91	110	100	106
14	74	68	72	82	79	80	92	88	90	110	101	105
15	76	73	75	81	77	79	89	78	85	105	88	96
16	77	74	75	82	78	80	89	83	87	94	88	90
17	78	75	77	82	80	81	90	88	89	104	94	99
18	78	77	77	82	80	81	89	87	88	108	71	95
19	79	76	78	77	76	76	88	86	87	101	86	96
20	81	77	79	---	---	93	88	86	87	100	96	98
21	82	78	80	---	---	88	88	87	87	100	92	97
22	80	76	78	---	---	87	91	87	88	101	89	98
23	79	76	78	---	---	91	94	87	90	99	94	97
24	82	78	79	---	---	94	95	88	91	101	97	99
25	81	79	80	---	---	96	96	92	93	100	90	97
26	81	79	80	---	---	97	100	89	93	99	89	95
27	81	49	71	---	---	87	101	88	92	98	91	95
28	68	62	65	---	---	86	94	88	90	98	94	96
29	67	65	66	---	---	92	101	92	95	104	99	101
30	64	56	60	---	---	95	108	97	102	107	101	104
31	---	---	---	---	---	96	112	98	107	---	---	---
MONTH	83	49	76	---	---	82	---	---	91	115	71	99
YEAR	115	49	81									

NOTE.--The figures on those days showing only mean specific conductance are based on the relationship between discharge and specific conductance.

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.0	14.0	7.0	5.0	6.0	2.0	0.0	1.0	1.0	0.0	0.5
2	15.0	11.5	13.0	7.5	5.5	6.5	2.0	1.0	1.5	1.0	0.0	0.5
3	15.5	11.0	13.5	10.0	8.0	9.0	3.5	1.0	2.5	0.5	0.0	0.0
4	16.5	12.5	14.5	8.0	6.0	7.0	2.0	0.0	1.0	0.5	0.0	0.0
5	15.5	12.5	14.5	6.0	5.5	6.0	0.5	0.0	0.0	1.5	0.0	0.5
6	16.5	13.5	15.0	7.0	5.5	6.0	1.0	0.0	1.0	0.0	0.0	0.0
7	15.5	15.0	15.0	7.5	4.5	6.0	1.0	0.0	0.5	0.0	0.0	0.0
8	15.0	14.0	14.5	7.0	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
9	14.0	11.5	12.5	7.0	6.5	6.5	1.5	0.5	1.0	0.0	0.0	0.0
10	11.5	9.5	10.5	7.5	5.5	6.5	2.0	1.0	2.0	0.0	0.0	0.0
11	11.5	8.5	10.0	7.0	5.5	6.0	2.0	0.5	1.5	0.0	0.0	0.0
12	11.5	10.0	11.0	6.5	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
13	11.5	10.0	11.0	7.0	6.0	6.5	2.0	0.5	1.5	0.0	0.0	0.0
14	10.5	7.5	9.0	6.5	5.0	6.0	2.0	0.5	1.0	0.0	0.0	0.0
15	10.5	9.0	10.0	4.5	2.5	3.0	0.5	0.0	0.0	0.0	0.0	0.0
16	9.0	7.5	8.0	3.5	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
17	10.5	9.0	10.0	2.5	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18	9.0	7.0	8.0	3.0	1.5	2.5	0.0	0.0	0.0	0.5	0.0	0.0
19	8.0	6.5	7.5	3.0	1.5	2.5	0.5	0.0	0.0	1.5	0.0	0.5
20	6.5	4.5	5.5	4.5	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0
21	6.5	3.5	5.0	3.0	1.0	2.5	0.0	0.0	0.0	0.5	0.0	0.0
22	7.5	5.5	6.5	2.0	0.0	1.0	0.5	0.0	0.0	1.0	0.0	0.0
23	10.0	7.5	8.5	1.0	0.0	0.5	1.0	0.5	1.0	1.5	0.0	0.5
24	12.0	9.5	10.5	2.0	0.5	1.5	2.0	1.0	1.5	1.5	0.5	1.0
25	10.5	8.0	10.0	3.0	1.5	2.0	2.0	1.5	1.5	1.0	0.0	0.5
26	9.5	7.5	8.0	6.0	2.5	4.5	2.0	1.0	1.5	2.0	0.0	1.0
27	9.5	6.0	8.0	4.5	3.5	4.0	2.0	1.0	1.5	2.0	0.0	1.0
28	9.5	7.0	8.0	4.5	3.0	4.0	1.5	0.5	1.0	1.5	0.0	1.0
29	11.0	9.5	10.0	4.0	1.5	3.0	1.0	0.0	0.0	0.0	0.0	0.0
30	9.5	7.0	8.0	2.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.0	5.5	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	16.5	3.5	10.0	10.0	0.0	4.5	3.0	0.0	0.5	1.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	1.0	0.0	0.5	6.5	5.0	6.0	12.5	6.5	9.5
2	0.0	0.0	0.0	2.0	0.5	1.5	5.5	5.0	5.5	14.0	9.5	12.0
3	0.5	0.0	0.0	1.5	1.0	1.5	6.0	4.0	5.0	15.0	11.0	13.0
4	1.0	0.0	0.5	2.0	1.0	1.5	6.0	1.5	4.0	13.0	11.0	12.0
5	2.0	0.5	1.0	4.0	1.5	2.5	5.5	1.5	3.5	11.0	8.5	9.5
6	1.0	0.0	0.5	3.5	1.5	2.5	7.0	2.5	5.0	9.0	7.0	8.5
7	1.0	0.0	0.5	3.0	2.0	2.5	9.5	3.5	6.5	12.0	7.5	9.5
8	2.0	1.0	1.5	3.5	2.5	3.0	7.0	4.0	5.5	12.0	8.0	10.0
9	1.5	0.0	0.5	5.5	2.0	4.0	8.5	2.0	5.0	10.5	9.0	9.5
10	0.0	0.0	0.0	5.0	2.5	3.5	5.5	4.0	4.5	12.0	8.5	10.5
11	0.0	0.0	0.0	4.0	2.5	3.5	5.5	2.5	4.0	11.5	10.0	10.5
12	0.0	0.0	0.0	7.5	3.5	5.5	6.5	1.0	3.5	12.0	8.5	10.5
13	0.5	0.0	0.0	8.5	4.5	6.5	7.0	1.5	4.5	11.5	9.0	10.0
14	0.5	0.0	0.0	6.5	4.0	5.5	8.5	2.0	5.0	12.0	8.5	10.5
15	0.5	0.0	0.5	5.5	4.5	5.0	10.0	3.5	7.0	10.5	9.5	10.0
16	0.5	0.0	0.5	8.5	4.5	6.5	12.0	5.5	8.5	12.0	8.5	10.0
17	0.0	0.0	0.0	7.5	6.5	7.0	10.5	8.0	9.5	12.0	8.5	10.5
18	0.0	0.0	0.0	6.5	4.0	5.0	13.0	9.0	11.0	10.5	8.0	9.0
19	0.0	0.0	0.0	6.5	2.0	4.0	14.0	9.5	11.5	10.0	7.5	9.0
20	0.5	0.0	0.0	5.0	3.5	4.0	12.5	8.0	10.5	10.0	8.0	9.5
21	1.5	0.5	1.0	4.0	1.5	2.5	11.0	7.0	9.0	10.5	9.0	9.5
22	1.5	0.5	1.0	3.0	1.5	2.0	15.0	8.5	12.0	10.5	9.0	9.5
23	2.0	0.0	1.0	6.0	0.5	3.0	16.5	12.0	14.0	12.5	8.0	10.5
24	1.5	0.0	0.5	7.5	2.0	4.5	14.0	10.5	12.5	12.0	10.0	11.0
25	1.0	0.0	0.5	8.5	3.5	6.0	13.5	9.5	11.5	11.0	9.5	10.0
26	1.0	0.0	0.5	7.5	5.5	6.0	10.5	7.0	9.0	9.0	8.5	8.5
27	0.5	0.0	0.0	8.0	3.5	5.5	7.0	6.5	7.0	10.5	7.5	9.0
28	0.5	0.0	0.0	7.5	2.5	5.0	10.0	6.5	8.0	10.0	8.5	9.0
29	---	---	---	6.5	2.5	4.5	8.5	6.5	7.5	14.0	10.0	12.0
30	---	---	---	6.5	4.0	5.0	11.5	5.5	8.5	15.0	11.5	13.0
31	---	---	---	6.0	5.0	5.5	---	---	---	14.0	12.0	13.5
MONTH	2.0	0.0	0.5	8.5	0.0	4.0	16.5	1.0	7.5	15.0	6.5	10.5

01096906 BOULDER BROOK NEAR EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	11.5	13.5	17.0	15.5	16.0	---	---	---	22.0	19.5	21.0
2	14.0	12.0	13.0	18.5	15.0	16.5	---	---	---	23.5	20.5	22.0
3	14.0	10.0	12.0	18.5	15.5	17.0	---	---	---	25.0	21.5	23.0
4	13.0	11.0	12.0	17.0	16.0	16.5	---	---	---	25.5	22.0	23.5
5	14.5	12.5	13.5	17.0	15.5	16.0	---	---	---	23.5	22.0	22.5
6	13.5	11.5	12.5	17.0	14.0	16.0	---	---	---	21.5	19.5	21.0
7	16.0	13.0	14.5	18.0	14.5	16.5	---	---	---	19.5	17.0	18.5
8	17.5	14.0	15.5	19.5	16.0	18.0	---	---	---	17.0	15.5	16.5
9	18.0	15.0	16.5	21.0	17.5	19.0	---	---	---	16.5	14.0	15.5
10	17.0	14.0	15.5	20.5	17.5	18.5	22.5	21.5	22.5	17.0	13.5	15.5
11	19.0	15.0	17.0	18.0	16.5	17.0	22.0	20.0	21.0	19.5	16.0	17.5
12	20.5	17.0	18.0	16.5	14.0	15.0	22.0	19.5	20.5	19.0	16.0	17.5
13	17.0	14.5	15.5	16.5	13.0	15.0	20.5	18.5	19.5	19.0	16.5	18.0
14	16.5	13.5	15.0	19.5	15.5	17.5	18.5	17.5	18.0	17.5	16.0	17.0
15	15.5	12.5	14.0	17.5	15.0	16.0	18.0	17.5	17.5	16.0	14.5	15.0
16	14.5	12.5	13.5	17.0	13.5	15.5	18.5	17.0	17.5	16.5	14.0	15.5
17	15.0	11.5	13.0	18.0	14.0	16.0	20.0	17.0	18.5	16.5	13.5	15.0
18	13.0	12.0	12.5	17.0	15.0	16.0	20.0	18.0	19.0	16.0	14.5	15.5
19	14.5	12.0	13.5	17.5	14.5	15.0	19.5	18.0	18.5	15.5	13.0	14.5
20	16.5	13.0	15.0	---	---	---	19.0	16.5	18.0	15.0	13.0	14.0
21	18.0	14.5	16.5	---	---	---	18.5	16.0	17.5	14.0	11.5	13.0
22	17.5	16.0	17.0	---	---	---	17.5	16.5	17.0	13.0	10.5	11.5
23	16.5	15.0	15.5	---	---	---	18.0	15.0	16.5	16.0	13.5	15.0
24	18.0	15.0	16.0	---	---	---	18.5	16.0	17.0	15.0	13.5	14.5
25	17.0	15.0	16.0	---	---	---	18.5	15.5	17.0	15.0	12.5	13.5
26	16.5	15.5	16.0	---	---	---	20.5	17.5	19.0	14.5	11.0	13.0
27	16.0	15.0	15.5	---	---	---	20.5	18.0	19.5	16.0	12.5	14.5
28	16.5	14.5	15.5	---	---	---	22.0	19.5	20.5	17.0	15.0	16.0
29	17.0	15.5	16.0	---	---	---	22.5	19.0	21.0	17.5	13.5	15.5
30	17.0	15.5	16.0	---	---	---	25.0	20.5	22.5	16.5	14.0	15.5
31	---	---	---	---	---	---	25.0	21.5	23.0	---	---	---
MONTH	20.5	10.0	15.0	---	---	---	---	---	---	25.5	10.5	16.5
YEAR	25.5	0.0	8.0									

01096910 BOULDER BROOK AT EAST BOLTON, MASS.

LOCATION.--Lat 42°27'04", long 71°34'39", Worcester County, two-parameter monitor at gaging station on right bank 900 ft (300 m) downstream from Interstate Highway 495, 0.9 mi (1.4 km) west of East Bolton, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--1.61 mi² (4.17 km²).

PERIOD OF RECORD.--Chemical analyses: June 1971 to current year.
Water temperatures: June 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 411 micromhos Sept. 6, 30; minimum, 68 micromhos June 27.
Water temperatures: Maximum, 26.5°C Aug. 10; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 754 micromhos Feb. 13, 1972; minimum, 68 micromhos June 27, 1973.
Water temperatures: Maximum, 28.0°C June 30, 1971; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	290	233	227	230	158	129	140	222	119	143
2	---	---	290	238	172	216	141	134	138	129	119	126
3	---	---	290	192	175	185	148	128	139	140	130	136
4	---	---	290	207	193	201	142	129	135	211	137	150
5	---	---	305	212	207	210	156	132	140	158	138	144
6	---	---	305	208	201	204	313	102	167	158	138	144
7	---	---	117	220	210	215	124	100	114	158	149	154
8	---	---	140	222	119	195	134	124	130	165	152	158
9	---	---	165	144	112	126	245	137	188	166	156	161
10	---	---	187	160	145	155	146	131	138	158	151	156
11	---	---	195	174	161	168	137	132	135	152	150	151
12	---	---	188	176	168	172	149	135	139	152	149	151
13	206	190	200	185	178	181	358	142	189	152	149	150
14	224	206	216	188	116	157	146	141	143	154	149	152
15	233	225	229	187	123	151	158	143	146	149	143	147
16	243	231	237	165	156	160	158	139	147	150	142	145
17	246	242	244	174	163	170	147	139	142	146	130	139
18	248	243	245	177	171	174	150	147	148	134	120	128
19	250	248	249	179	171	175	148	146	147	136	118	126
20	252	248	250	215	95	127	155	144	147	151	97	111
21	255	250	252	142	128	137	149	144	147	130	114	122
22	256	255	256	148	141	144	288	141	183	151	125	132
23	262	256	258	152	145	149	142	138	140	108	88	99
24	264	255	261	153	149	150	153	138	143	112	104	109
25	265	260	263	152	149	150	143	138	140	113	109	112
26	264	260	261	155	99	121	148	138	141	115	110	113
27	266	261	263	139	124	132	150	137	141	115	111	113
28	269	264	266	141	137	140	148	140	144	115	110	111
29	264	196	220	142	139	141	149	144	147	136	111	120
30	214	197	206	144	134	141	151	149	150	116	111	113
31	226	216	221	---	---	---	306	148	186	119	116	117
MONTH	---	---	237	238	95	166	358	100	148	222	88	133

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

		FEBRUARY			MARCH			APRIL			MAY	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	123	120	122	158	139	150	141	86	125	141	136	138
2	256	121	151	149	123	139	101	78	88	144	140	141
3	147	101	108	139	128	136	111	102	107	153	131	143
4	111	104	109	184	120	134	115	101	110	140	129	134
5	112	110	111	130	115	123	107	98	102	142	138	140
6	116	110	114	128	118	123	116	104	111	143	140	141
7	118	115	117	126	120	123	121	115	118	147	142	144
8	135	118	122	132	93	108	122	119	121	149	146	147
9	131	119	123	112	105	108	124	119	121	149	109	134
10	136	123	129	113	109	111	131	85	107	133	112	123
11	145	131	137	115	112	113	118	104	113	138	113	121
12	147	134	141	113	107	111	122	118	120	134	116	128
13	140	134	137	113	110	111	124	121	123	143	134	138
14	143	133	138	118	113	116	127	124	125	148	142	144
15	199	132	151	127	113	117	131	126	128	150	139	146
16	143	135	139	119	115	117	135	130	132	140	114	126
17	155	132	143	125	92	106	134	131	133	144	134	139
18	151	141	147	114	101	110	137	132	134	149	120	133
19	153	147	149	117	114	116	140	136	138	141	127	134
20	173	142	150	118	117	117	142	139	140	149	128	142
21	154	140	146	119	114	118	145	142	143	119	85	103
22	148	136	144	120	115	118	150	145	147	130	119	125
23	148	139	143	122	120	121	159	148	151	140	130	134
24	155	140	145	125	117	123	147	136	141	142	137	139
25	162	137	150	128	120	125	149	145	147	142	139	140
26	165	147	151	165	105	120	149	93	134	140	138	139
27	180	142	157	122	114	119	113	102	108	143	138	140
28	174	146	156	127	118	123	124	106	118	144	119	135
29	---	---	---	129	121	127	131	125	128	132	104	118
30	---	---	---	132	130	131	137	130	134	145	132	137
31	---	---	---	134	132	133	---	---	---	146	127	135
MONTH	256	101	137	184	92	121	159	78	125	153	85	135

		JUNE			JULY			AUGUST			SEPTEMBER	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	138	143	133	107	120	261	243	254	346	327	333
2	152	148	150	152	135	141	250	86	198	353	329	344
3	159	150	155	168	150	156	136	90	118	377	353	365
4	160	155	158	170	162	166	165	136	147	398	379	390
5	159	156	157	158	115	135	195	165	173	409	398	405
6	157	151	153	161	131	144	222	191	200	411	229	365
7	165	154	157	181	153	167	243	211	221	275	219	244
8	173	164	167	195	178	183	253	230	241	324	278	305
9	178	134	166	210	192	197	272	242	256	355	327	342
10	153	133	142	218	199	206	287	261	275	385	357	370
11	171	153	161	220	167	190	303	272	292	395	386	390
12	190	172	181	185	169	176	293	256	271	392	381	387
13	180	92	125	208	187	194	302	286	295	407	393	397
14	135	96	116	221	205	211	321	305	312	410	406	409
15	156	134	142	225	191	213	307	140	221	406	344	369
16	159	152	154	204	189	193	180	142	158	347	340	343
17	161	149	153	222	206	212	218	182	195	367	346	353
18	165	161	163	235	225	231	242	214	223	377	131	277
19	174	165	167	239	228	232	255	231	240	225	167	194
20	184	174	178	249	240	244	269	244	253	272	227	245
21	198	184	191	251	178	216	282	261	271	298	275	283
22	201	169	196	202	178	186	293	273	284	311	298	304
23	164	153	157	227	203	212	296	268	278	304	285	296
24	181	166	170	245	228	235	320	300	307	312	298	306
25	198	184	187	260	247	254	337	315	327	302	290	296
26	196	190	193	273	260	268	352	334	346	327	303	320
27	193	68	158	263	156	219	348	267	291	349	326	340
28	130	81	104	202	163	180	315	292	306	374	349	359
29	127	113	118	227	203	215	347	318	335	399	377	386
30	120	88	100	245	225	230	376	348	364	411	400	404
31	---	---	---	257	248	253	395	345	382	---	---	---
MONTH	201	68	155	273	107	199	395	86	259	411	131	337
YEAR	411	68	180									

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	4.5	5.5	2.0	0.0	1.0	1.5	0.0	0.5
2	---	---	---	7.5	4.5	6.0	2.5	1.0	1.5	1.5	0.0	0.5
3	---	---	---	10.5	7.0	9.0	4.5	1.5	3.0	0.5	0.0	0.0
4	---	---	---	6.5	5.5	6.0	2.5	0.0	1.0	1.0	0.0	0.0
5	---	---	---	6.0	5.0	5.5	1.0	0.0	0.0	2.0	0.0	1.0
6	---	---	---	7.5	5.0	6.0	1.5	1.0	1.0	0.0	0.0	0.0
7	---	---	---	7.5	3.5	5.5	1.5	0.0	0.5	0.0	0.0	0.0
8	---	---	---	7.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0
9	---	---	---	7.0	6.0	6.5	2.5	0.5	1.5	0.0	0.0	0.0
10	---	---	---	7.5	5.5	6.5	3.0	1.5	2.5	0.0	0.0	0.0
11	---	---	---	6.0	5.5	6.0	2.5	0.0	2.0	0.0	0.0	0.0
12	---	---	---	7.0	5.5	6.0	1.0	0.0	0.0	0.0	0.0	0.0
13	12.0	7.5	9.5	7.0	6.0	6.5	3.0	1.0	2.0	0.0	0.0	0.0
14	11.0	5.5	8.5	6.5	2.5	5.0	2.0	0.5	1.5	0.0	0.0	0.0
15	10.0	6.0	8.5	3.5	2.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
16	9.0	5.0	7.0	3.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17	11.0	7.0	9.5	3.0	0.0	1.5	0.0	0.0	0.0	1.0	0.0	0.0
18	9.0	5.0	7.0	4.0	1.5	2.5	0.0	0.0	0.0	1.0	0.0	0.0
19	7.0	5.0	6.5	3.5	1.0	2.5	0.5	0.0	0.0	2.0	0.0	0.5
20	6.5	2.5	4.5	5.0	3.0	4.0	1.5	0.0	1.0	1.0	0.0	0.0
21	6.5	1.0	4.0	4.0	1.5	3.0	0.0	0.0	0.0	0.5	0.0	0.0
22	8.0	4.5	6.5	2.0	0.0	1.0	1.0	0.0	0.5	1.0	0.0	0.5
23	12.0	7.5	9.5	1.0	0.0	0.5	2.0	1.0	1.5	2.0	0.0	1.0
24	13.5	9.5	11.0	2.5	0.5	1.5	3.0	1.5	2.0	2.5	0.5	1.0
25	11.0	6.5	9.5	4.0	2.0	3.0	3.0	2.0	2.5	1.5	0.0	0.5
26	9.5	5.5	7.0	6.5	3.0	5.0	3.0	2.0	2.0	2.5	0.0	1.0
27	9.5	4.5	6.5	5.5	4.0	4.5	3.0	1.5	2.0	2.5	0.0	1.5
28	9.5	5.0	7.5	5.5	3.0	4.5	2.5	1.0	1.5	1.5	0.0	1.0
29	11.0	9.5	10.5	5.0	2.0	3.5	1.0	0.0	0.0	0.0	0.0	0.0
30	9.5	5.5	8.0	3.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.5	4.0	5.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	---	---	---	10.5	0.0	4.5	4.5	0.0	0.0	2.5	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.5	0.0	1.0	7.5	5.5	6.5	15.0	6.5	10.5
2	0.5	0.0	0.0	4.0	1.0	2.0	6.0	5.0	5.5	16.5	10.0	13.0
3	1.0	0.0	0.5	2.5	1.5	2.0	6.0	4.5	5.0	18.0	11.0	14.0
4	2.0	0.0	1.0	3.0	1.0	2.0	6.5	1.0	4.0	14.5	11.0	12.5
5	3.0	0.5	1.5	5.5	1.5	3.5	6.0	1.5	4.0	10.5	8.5	9.5
6	2.0	0.0	0.5	4.5	2.0	3.0	7.5	2.5	5.0	10.5	7.0	8.5
7	2.0	0.5	1.0	3.5	2.5	3.0	10.5	3.5	7.0	15.0	7.5	10.0
8	3.0	1.0	2.0	4.5	2.5	3.5	7.0	4.0	5.5	14.0	7.5	10.5
9	2.0	0.0	0.5	6.5	2.5	4.5	9.5	2.0	5.5	10.0	9.5	9.5
10	0.0	0.0	0.0	6.0	2.5	4.0	5.5	4.0	5.0	14.5	9.0	11.0
11	0.5	0.0	0.0	4.5	2.5	3.5	6.5	2.5	4.0	12.5	10.0	11.0
12	0.5	0.0	0.0	8.5	4.0	6.5	7.5	1.0	4.0	14.0	8.5	11.0
13	1.0	0.0	0.0	9.5	4.5	6.5	8.5	1.5	4.5	12.5	8.5	10.5
14	1.5	0.0	0.5	6.5	4.0	5.5	10.0	2.0	6.0	13.5	7.5	10.5
15	1.5	0.0	0.5	6.0	4.5	5.5	11.5	3.0	7.0	10.5	9.0	9.5
16	1.5	0.0	0.5	9.0	4.5	7.0	13.5	5.0	9.0	14.0	8.5	11.0
17	0.0	0.0	0.0	7.5	6.5	7.0	11.5	8.0	10.0	14.5	8.0	11.0
18	0.0	0.0	0.0	6.5	3.0	5.0	14.5	9.0	11.5	10.0	8.0	9.0
19	0.5	0.0	0.0	7.5	1.5	4.5	15.5	9.5	12.5	11.5	7.0	9.0
20	1.5	0.0	0.5	4.0	2.5	3.5	15.5	8.0	11.0	11.0	7.5	9.5
21	3.0	0.5	1.5	4.0	1.0	2.5	13.0	7.0	9.5	11.0	9.0	10.0
22	3.0	1.0	2.0	2.5	1.0	1.5	18.0	9.0	13.0	11.0	8.5	10.0
23	3.5	0.0	1.5	6.5	0.0	3.0	19.0	12.5	15.0	14.5	8.0	11.0
24	2.5	0.0	0.5	8.5	1.5	5.0	15.5	10.5	13.0	14.0	10.0	11.5
25	2.0	0.0	0.5	9.5	3.0	6.5	15.5	9.5	12.0	10.5	9.0	10.0
26	2.5	0.0	0.5	7.0	5.5	6.0	10.5	7.0	9.0	9.5	8.0	9.0
27	1.0	0.0	0.0	9.0	3.5	6.0	7.0	6.5	7.0	12.5	7.0	9.5
28	1.5	0.0	0.0	9.0	2.0	5.0	11.0	6.5	8.5	10.5	9.0	9.5
29	---	---	---	7.5	2.0	4.5	8.5	7.0	8.0	16.5	10.5	13.0
30	---	---	---	7.0	3.5	5.5	13.5	5.5	9.5	17.5	11.5	14.5
31	---	---	---	6.5	5.5	6.0	---	---	---	17.5	13.0	14.5
MONTH	3.5	0.0	0.5	9.5	0.0	4.5	19.0	1.0	8.0	18.0	6.5	11.0

01096910 BOULDER BROOK AT EAST BOLTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	12.0	14.5	19.0	16.5	17.5	23.0	18.0	19.5	25.5	18.0	21.5
2	17.5	11.5	14.0	20.5	16.0	18.0	20.5	17.5	19.0	25.0	18.0	21.5
3	17.5	9.5	13.0	21.0	16.0	18.0	21.5	18.5	20.0	25.5	18.5	21.5
4	15.5	11.0	13.0	19.0	17.0	17.5	23.5	18.5	20.5	24.5	18.5	21.5
5	18.0	13.0	15.0	18.5	16.5	17.0	24.0	17.5	20.0	20.5	18.5	19.5
6	17.0	12.0	14.0	20.0	15.0	17.0	24.0	16.0	19.5	21.0	18.0	19.0
7	19.5	14.0	16.0	21.5	14.5	17.5	25.0	16.5	20.5	21.0	14.5	17.5
8	21.5	14.5	17.5	23.0	16.5	19.0	25.0	18.0	21.5	17.5	13.0	15.0
9	22.0	14.5	17.5	23.5	17.5	20.0	26.0	18.5	22.0	17.5	11.5	14.0
10	20.5	15.0	17.0	23.0	17.0	19.5	26.5	19.5	22.5	17.0	10.0	13.0
11	23.5	15.5	19.0	20.0	16.5	18.0	24.5	19.0	21.5	19.0	11.0	14.5
12	24.0	17.0	19.5	18.0	13.5	16.0	26.0	18.0	21.5	17.5	12.0	15.0
13	17.5	15.5	17.0	20.0	12.0	16.0	23.5	17.0	20.0	17.0	10.5	13.5
14	19.0	14.5	16.5	22.5	15.5	18.5	20.5	15.5	18.0	14.0	11.0	13.0
15	19.0	13.0	15.5	17.0	14.0	16.0	18.5	17.0	17.5	17.5	12.5	14.5
16	17.0	13.0	14.5	20.5	13.0	16.5	20.5	16.5	18.0	17.5	11.5	14.0
17	19.0	12.0	14.5	21.0	13.0	16.5	22.5	15.0	18.5	16.0	10.0	12.5
18	15.0	12.0	13.5	19.0	13.0	16.0	23.0	15.5	19.0	14.5	11.0	12.5
19	18.5	12.5	15.0	23.5	14.0	18.0	22.0	16.0	18.5	16.5	10.5	13.0
20	20.0	13.0	16.5	22.0	15.5	18.5	22.5	14.5	18.0	16.0	8.5	12.0
21	23.0	15.5	18.5	18.5	16.5	17.5	22.0	14.5	17.5	14.5	8.0	11.0
22	20.5	16.5	18.0	22.5	15.5	18.5	18.5	15.0	16.0	12.0	6.0	9.0
23	19.0	15.5	17.0	23.5	14.5	18.0	21.5	13.0	16.5	18.5	12.5	14.5
24	22.0	15.5	18.0	24.0	14.0	18.5	21.0	14.5	17.0	13.5	11.0	12.5
25	20.5	15.5	17.5	24.5	14.5	19.0	22.0	12.5	17.0	15.0	8.5	11.5
26	18.5	15.5	16.5	18.0	16.5	17.5	23.0	15.0	18.5	15.5	7.0	11.0
27	18.0	15.0	16.5	21.0	16.5	18.0	24.5	17.0	20.0	17.0	9.5	13.0
28	19.0	15.5	17.0	24.0	17.5	20.0	24.5	19.0	21.5	16.0	10.5	13.5
29	19.0	16.5	17.5	22.5	17.5	19.5	24.5	17.0	20.5	15.0	8.0	11.5
30	18.0	17.0	17.5	25.0	16.0	20.0	25.0	18.0	21.0	13.0	8.0	10.0
31	---	---	---	23.5	15.5	19.5	25.0	17.5	21.0	---	---	---
MONTH	24.0	9.5	16.0	25.0	12.0	18.0	26.5	12.5	19.5	25.5	6.0	14.5
YEAR	26.5	0.0	9.0									

01097300 NASHOBA BROOK NEAR ACTON, MASS.

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, two-parameter monitor at gaging station on right bank 1,500 ft (450 m) downstream from dam at North Acton, 2.2 mi (3.5 km) northeast of Acton, and 5 mi (8 km) above mouth.

DRAINAGE AREA.--12.7 mi² (32.9 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to current year.
Water temperatures: November 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 201 micromhos Jan. 12; minimum, 71 micromhos Apr. 2.
Water temperatures: Maximum, 27.0°C Sept. 3; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 371 micromhos May 13, 1972; minimum, 71 micromhos Apr. 2, 1973.
Water temperatures: Maximum, 27.0°C Sept. 3, 1973; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites. Recording air-temperature gage located at station since January 1973.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	194	190	193	191	188	189	138	136	137	161	149	154
2	194	189	193	192	189	191	147	135	141	176	154	170
3	193	184	190	190	183	187	149	147	148	168	156	161
4	190	180	187	185	182	183	148	144	145	159	157	158
5	188	181	185	184	183	183	152	148	150	166	158	161
6	185	181	183	184	182	183	152	121	144	170	166	169
7	184	150	170	183	178	182	137	119	123	179	169	175
8	163	151	158	183	169	180	141	136	139	191	179	187
9	156	150	152	166	128	146	137	134	135	197	191	195
10	161	156	159	141	120	128	150	135	143	200	197	199
11	165	158	162	134	129	132	151	144	147	200	199	200
12	167	164	166	143	134	138	148	145	147	201	199	200
13	170	166	168	151	143	147	148	145	147	200	199	200
14	172	167	170	153	131	147	155	145	149	200	197	199
15	177	172	175	132	124	128	159	155	158	197	189	194
16	180	177	179	136	126	130	156	154	155	189	183	186
17	182	180	181	147	137	143	158	155	156	183	177	181
18	183	181	182	154	149	151	163	158	161	177	161	171
19	184	182	183	158	154	157	163	161	162	162	155	160
20	185	183	184	160	118	132	161	158	159	154	126	135
21	185	183	185	130	114	119	158	158	158	143	126	133
22	184	184	184	122	118	120	159	149	155	148	143	146
23	185	184	184	140	123	132	182	149	161	138	117	123
24	188	182	185	147	140	144	186	160	175	119	117	118
25	189	187	188	151	147	149	159	151	154	128	119	124
26	190	185	188	151	119	131	151	149	150	133	129	132
27	192	185	190	130	124	126	165	147	151	138	133	136
28	193	191	192	125	123	124	153	148	151	137	136	136
29	191	185	188	133	125	128	156	153	155	140	136	138
30	191	185	189	139	134	137	161	157	160	145	138	140
31	188	187	187	---	---	---	162	161	162	151	145	149
MONTH	194	150	180	192	114	149	186	119	151	201	117	162

01097300 NASHOBA BROOK NEAR ACTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	154	151	153	176	168	173	150	123	145	135	126	131
2	155	131	152	168	155	164	119	71	89	142	134	139
3	153	109	130	154	149	151	88	72	81	147	141	144
4	130	125	127	149	128	140	107	89	101	147	144	146
5	131	128	129	136	125	131	111	102	105	148	143	146
6	136	132	134	125	124	124	122	112	118	146	143	145
7	139	136	138	---	---	127	126	118	122	148	143	145
8	140	138	139	---	---	124	130	125	128	150	145	148
9	144	138	140	---	---	108	135	129	132	150	141	147
10	154	145	151	---	---	114	134	113	126	140	133	136
11	161	153	158	---	---	121	117	112	116	133	125	129
12	165	160	164	---	---	126	120	112	116	130	125	127
13	167	164	166	---	---	125	129	119	125	132	128	130
14	166	163	165	---	---	127	136	129	133	138	130	134
15	166	161	163	120	119	119	141	134	137	141	137	139
16	162	159	160	126	119	123	145	137	142	140	134	137
17	167	153	161	124	112	119	147	143	145	137	134	135
18	170	164	167	114	110	112	150	145	147	135	129	133
19	172	170	171	116	111	114	152	146	149	129	126	128
20	173	169	171	122	116	119	153	148	150	129	125	127
21	169	166	167	127	122	125	152	148	150	123	100	108
22	166	161	165	130	127	128	154	149	152	102	97	100
23	160	153	157	137	130	134	159	154	156	115	101	108
24	153	150	152	142	135	139	158	155	156	124	115	120
25	155	150	153	145	140	143	158	155	157	129	124	127
26	161	152	157	144	131	138	156	141	151	132	128	130
27	164	159	162	142	130	136	140	112	125	137	131	134
28	174	164	171	139	137	138	114	111	112	137	135	136
29	---	---	---	139	137	138	116	112	115	133	127	129
30	---	---	---	144	139	142	126	115	121	130	126	128
31	---	---	---	147	144	146	---	---	---	133	129	131
MONTH	174	109	154	---	---	131	159	71	130	150	97	132

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	138	130	134	86	73	80	171	168	169	185	183	184
2	144	137	141	101	85	92	170	166	169	185	184	184
3	149	141	144	114	101	108	165	155	159	185	183	184
4	149	146	148	122	114	119	152	139	143	---	---	188
5	152	148	150	124	97	111	144	139	141	---	---	187
6	156	152	154	106	94	101	151	144	147	---	---	188
7	158	156	157	116	105	110	157	151	153	---	---	180
8	158	156	157	122	112	119	163	157	160	---	---	183
9	158	155	156	129	120	125	167	163	165	---	---	181
10	159	155	157	135	127	130	169	166	167	---	---	184
11	162	156	159	138	134	136	176	171	173	---	---	187
12	163	157	161	138	134	136	181	177	179	---	---	188
13	158	148	154	142	135	138	182	178	180	---	---	190
14	147	134	141	145	140	142	180	177	178	185	183	184
15	138	132	134	145	143	144	178	165	173	183	181	181
16	143	138	140	142	139	140	165	162	163	181	178	179
17	149	143	146	147	138	142	174	164	169	178	175	176
18	152	148	150	160	144	151	179	174	176	175	160	170
19	156	152	154	161	155	158	181	179	180	168	165	167
20	158	155	156	160	157	159	180	177	178	192	172	182
21	161	158	159	159	143	152	179	177	178	198	190	194
22	162	160	161	161	143	155	181	178	179	198	196	197
23	161	159	160	160	156	158	180	178	179	198	196	197
24	159	150	155	162	155	158	179	177	178	197	192	195
25	157	153	155	163	156	159	182	178	180	192	187	189
26	155	153	154	165	159	162	184	182	183	187	185	186
27	154	147	150	166	159	164	185	183	184	186	183	184
28	151	146	148	164	150	157	184	182	183	187	185	185
29	149	110	135	175	164	170	184	181	182	186	184	185
30	108	72	80	172	169	170	182	177	179	185	183	184
31	---	---	---	172	169	171	184	177	180	---	---	---
MONTH	163	72	148	175	73	139	185	139	171	---	---	185
YEAR	201	71	153									

MERRIMACK RIVER BASIN

01097300 NASHOBA BROOK NEAR ACTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.5	14.5	7.0	6.0	6.5	1.0	0.0	0.5	0.0	0.0	0.0
2	14.5	12.0	13.0	6.0	5.5	6.0	1.0	0.0	0.5	0.0	0.0	0.0
3	14.0	11.5	12.5	8.5	6.0	7.0	2.0	0.0	1.0	0.0	0.0	0.0
4	14.5	12.0	13.0	7.5	6.5	7.0	1.5	0.0	0.5	0.0	0.0	0.0
5	14.0	12.5	13.0	6.5	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
6	15.0	13.5	14.0	6.5	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
7	15.0	14.5	15.0	6.5	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
8	15.5	14.0	14.5	6.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
9	14.0	11.5	13.0	6.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
10	11.5	9.0	10.0	7.0	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
11	9.5	7.5	8.5	6.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
12	9.0	8.5	9.0	6.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
13	10.0	8.5	9.5	6.5	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
14	9.0	8.5	8.5	6.5	3.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0
15	9.5	8.5	9.0	3.5	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
16	8.5	7.5	8.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	9.0	8.0	8.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
18	8.5	7.0	7.5	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19	7.5	6.5	7.0	1.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
20	6.5	4.5	5.5	4.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
21	6.0	4.0	5.0	3.0	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
22	6.5	5.5	5.5	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
23	8.0	6.5	7.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
24	11.5	8.0	9.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
25	11.5	9.5	11.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26	10.5	8.0	9.0	5.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
27	9.0	7.5	8.0	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
28	8.5	7.5	8.0	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
29	10.5	8.5	9.5	4.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
30	9.5	8.0	9.0	2.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
31	8.5	7.0	7.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	15.5	4.0	10.0	8.5	0.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	7.5	5.5	6.5	14.0	9.0	12.0
2	0.0	0.0	0.0	0.5	0.0	0.0	6.5	5.5	6.0	16.5	12.0	14.5
3	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.0	5.5	18.5	14.0	16.0
4	0.0	0.0	0.0	0.0	0.0	0.0	6.5	3.5	5.0	17.0	14.5	16.0
5	0.0	0.0	0.0	0.5	0.0	0.0	5.0	2.5	4.0	15.0	12.0	13.0
6	0.0	0.0	0.0	0.5	0.0	0.0	8.0	4.0	6.0	11.5	10.5	11.0
7	0.0	0.0	0.0	---	---	---	10.5	5.5	8.0	14.0	10.0	11.5
8	0.0	0.0	0.0	---	---	---	9.0	6.0	7.5	14.0	11.0	12.5
9	0.5	0.0	0.0	---	---	---	9.0	3.5	6.5	13.5	11.5	12.5
10	0.0	0.0	0.0	---	---	---	7.0	5.0	6.0	14.0	11.0	12.0
11	0.0	0.0	0.0	---	---	---	5.5	3.5	4.5	14.0	12.5	13.0
12	0.0	0.0	0.0	---	---	---	7.0	2.0	4.5	14.5	12.0	13.5
13	0.0	0.0	0.0	---	---	---	8.0	3.0	5.5	14.5	12.0	13.5
14	0.5	0.0	0.0	---	---	---	8.5	3.5	6.5	15.5	11.5	13.5
15	0.0	0.0	0.0	---	---	---	10.0	5.5	8.0	13.5	11.5	12.0
16	0.0	0.0	0.0	6.5	4.0	5.0	12.5	8.0	10.0	14.5	10.5	12.0
17	0.0	0.0	0.0	7.0	6.5	6.5	12.5	11.0	12.0	15.0	11.5	13.0
18	0.0	0.0	0.0	6.5	4.0	5.5	14.5	11.5	13.0	13.5	9.5	11.5
19	0.0	0.0	0.0	6.5	2.0	4.5	16.0	13.0	14.5	11.5	8.5	10.0
20	0.0	0.0	0.0	4.5	2.5	3.5	15.0	12.5	14.0	12.0	10.0	11.0
21	0.0	0.0	0.0	3.0	1.0	2.0	13.5	10.5	12.0	12.5	10.5	11.5
22	0.0	0.0	0.0	2.0	0.0	1.0	15.5	11.5	13.0	12.5	11.0	11.5
23	0.0	0.0	0.0	5.0	0.0	2.0	19.5	15.0	17.0	13.5	10.0	12.0
24	0.5	0.0	0.0	8.0	2.0	5.0	17.0	15.5	16.5	15.0	12.5	13.5
25	0.5	0.0	0.0	9.0	4.0	6.5	16.0	14.0	15.0	14.0	11.5	12.5
26	0.0	0.0	0.0	8.0	6.0	7.0	14.5	10.0	12.0	11.5	10.0	10.5
27	0.0	0.0	0.0	8.5	4.5	6.5	9.5	7.0	8.0	12.5	9.0	10.5
28	0.0	0.0	0.0	8.5	3.5	6.0	10.0	7.0	8.5	12.0	10.5	11.0
29	---	---	---	6.5	3.0	5.0	9.5	8.0	9.0	17.0	11.0	13.5
30	---	---	---	6.0	4.0	5.0	13.0	7.0	10.0	18.0	14.5	16.5
31	---	---	---	6.0	5.0	5.5	---	---	---	18.5	16.0	17.0
MONTH	0.5	0.0	0.0	---	---	---	19.5	2.0	9.0	18.5	8.5	12.5

01097300 NASHOBA BROOK NEAR ACTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	15.0	16.5	22.0	19.5	20.5	23.5	22.0	22.5	26.0	23.5	24.5
2	19.0	15.5	17.5	23.5	20.0	21.5	22.0	21.5	21.5	26.0	23.5	24.5
3	17.0	14.0	15.5	24.0	20.0	22.0	23.0	21.5	22.0	27.0	24.0	25.0
4	16.0	14.5	15.0	23.0	20.5	21.5	24.5	21.5	23.0	---	---	---
5	18.5	15.0	16.0	22.0	20.0	20.5	25.0	21.5	23.0	---	---	---
6	16.0	15.0	15.5	22.5	18.5	20.5	24.0	21.0	22.5	---	---	---
7	18.5	15.5	16.5	24.0	18.0	21.0	24.0	21.0	22.5	---	---	---
8	19.5	17.5	18.5	25.5	19.5	22.0	24.5	22.0	23.0	---	---	---
9	21.0	18.5	19.5	26.5	20.5	23.5	25.5	22.5	24.0	---	---	---
10	22.0	19.0	20.5	26.5	21.5	23.5	26.5	23.5	25.0	---	---	---
11	22.0	19.0	20.5	24.5	20.5	22.0	25.5	23.5	24.5	---	---	---
12	22.5	20.5	21.5	22.5	18.0	20.0	25.0	22.5	23.5	---	---	---
13	21.5	18.5	20.5	23.0	15.5	18.5	25.5	22.0	23.5	---	---	---
14	20.0	17.0	18.5	26.0	18.0	21.0	23.5	21.5	22.5	17.0	16.5	17.0
15	19.0	16.5	17.5	21.0	18.0	19.5	21.5	20.0	20.5	17.5	16.0	16.5
16	17.0	15.5	16.5	23.0	16.0	19.0	20.5	19.0	19.5	17.5	15.5	16.5
17	18.0	14.0	15.5	24.0	16.5	19.5	21.5	18.5	19.5	17.5	15.0	16.0
18	15.5	14.5	14.5	21.5	16.5	19.0	21.5	19.0	20.5	16.0	15.0	15.5
19	16.0	14.0	15.0	24.5	16.0	20.0	22.0	20.0	21.0	16.0	14.0	15.0
20	18.0	15.5	16.5	24.5	18.0	21.0	22.5	19.5	20.5	15.0	13.5	14.5
21	20.0	17.0	18.5	21.0	18.5	19.5	21.5	19.5	20.5	15.0	13.0	14.0
22	21.0	19.5	20.5	24.0	18.0	20.5	20.0	19.0	19.5	13.5	12.0	12.5
23	21.0	20.0	20.5	24.5	17.5	21.0	21.0	17.5	19.0	15.5	13.0	14.0
24	22.5	19.0	20.5	25.5	17.0	21.0	22.0	18.5	19.5	15.5	13.5	14.5
25	23.0	18.5	20.5	25.0	17.5	21.5	21.0	18.5	19.5	15.0	12.5	13.5
26	21.0	18.0	19.0	21.0	18.5	19.0	22.5	19.0	20.5	15.0	12.0	13.5
27	19.0	17.5	18.0	22.0	18.0	19.5	23.0	20.5	21.5	15.5	13.0	14.0
28	23.0	17.5	20.0	24.5	19.0	21.5	24.0	21.5	22.5	17.0	15.0	15.5
29	22.0	20.0	20.5	24.0	22.5	23.0	25.0	21.5	23.0	16.5	14.0	15.5
30	20.5	19.0	20.0	24.5	21.5	23.0	26.5	22.5	24.5	16.0	14.0	14.5
31	---	---	--	23.5	21.5	22.0	26.5	23.5	25.0	---	---	---
MONTH	23.0	14.0	18.0	26.5	15.5	21.0	26.5	17.5	22.0	---	---	---
YEAR	27.0	0.0	9.5									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.

LOCATION.--Lat 42°48'38", long 71°00'02", Essex County, multiple-parameter monitor at Bridge Street Bridge, 0.9 mi (1.4 km) northwest of West Newbury.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter records in water year 1973).
Water temperatures: October 1968 to current year (no winter records in water year 1973).

EXTREMES.--Current year:
Dissolved oxygen: Maximum not determined; minimum, 0.7 mg/l Sept. 7.
Water temperatures: Maximum, 28.5°C Sept. 3, 4; minimum, probably freezing point on many days during winter period.
Period of record:
Specific conductance: Maximum, greater than 1,000 micromhos Aug. 17, 18, 20, 1970, Sept. 7, Oct. 4, 6, 7, 1971; minimum, 40 micromhos July 2, 1973.
pH: Maximum, 8.6 Oct. 10, 1970; minimum, 5.4 Sept. 30, 1970.
Dissolved oxygen: Maximum, 18.2 mg/l Apr. 9, 1971; minimum, 0.1 mg/l Oct. 21, 1968, Sept. 11, 1970.
Water temperatures: Maximum, 29.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	274	126	148	78	74	77
2	241	127	144	84	75	79
3	160	130	141	91	83	87
4	174	138	148	100	90	95
5	179	144	156	101	98	100
6	203	155	163	104	93	97
7	397	154	179	95	91	92
8	221	129	154	99	92	96
9	144	130	139	106	99	102
10	166	122	141	115	104	109
11	137	126	133	117	111	115
12	145	129	137	112	86	99
13	141	126	135	86	76	80
14	135	116	122	76	67	72
15	119	111	115	72	67	69
16	118	112	115	78	70	75
17	120	112	115	102	78	90
18	121	114	117	114	98	106
19	150	117	132	118	91	103
20	145	141	143	---	---	---
21	149	135	141	85	81	83
22	189	135	144	86	80	84
23	232	137	150	---	---	---
24	272	132	151	---	---	---
25	276	134	151	---	---	---
26	189	132	144	---	---	---
27	163	137	148	---	---	---
28	160	140	146	---	---	---
29	200	143	154	---	---	---
30	174	148	154	84	82	83
31	171	150	157	86	80	82
MONTH	397	111	142	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	84	80	82	109	58	88	173	147	153	213	162	177
2	84	81	82	67	40	51	174	151	157	203	160	168
3	83	79	81	74	45	62	158	147	153	177	161	164
4	85	80	82	77	53	66	156	122	146	166	161	163
5	88	83	85	101	68	83	122	97	111	166	161	165
6	92	88	90	124	102	115	100	97	98	170	164	167
7	---	---	---	127	116	120	105	100	102	174	166	170
8	---	---	---	116	99	108	110	104	107	174	170	172
9	---	---	---	94	80	84	116	107	111	177	170	173
10	---	---	---	---	---	---	118	112	115	198	163	173
11	---	---	---	---	---	---	124	114	118	195	165	174
12	---	---	---	---	---	---	124	117	120	214	164	172
13	---	---	---	---	---	---	124	117	120	196	165	174
14	---	---	---	---	---	---	127	118	121	200	169	175
15	125	120	123	---	---	---	132	119	125	239	163	178
16	125	116	120	---	---	---	133	122	127	236	160	177
17	119	109	114	---	---	---	135	124	130	259	153	172
18	112	100	107	---	---	---	142	129	135	221	155	166
19	107	100	104	---	---	---	155	138	141	180	161	167
20	103	94	98	---	---	---	151	138	145	181	166	171
21	97	93	95	---	---	---	155	146	150	178	166	172
22	102	94	98	---	---	---	159	149	154	194	176	181
23	108	102	104	---	---	---	165	157	161	247	175	187
24	112	108	109	123	118	121	181	157	163	241	172	184
25	129	108	113	139	122	127	255	155	167	191	167	174
26	123	111	117	140	132	135	323	158	174	184	159	173
27	115	111	113	148	134	139	492	160	218	186	154	164
28	119	111	115	167	135	140	560	168	235	185	144	156
29	120	112	116	168	137	145	330	173	201	186	141	151
30	115	107	109	202	142	149	280	177	195	171	141	147
31	---	---	---	172	142	149	248	173	188	---	---	---
MONTH	---	---	---	---	---	---	560	97	146	259	141	170
PERIOD	560	40	132									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	6.2	6.3	6.7	6.6	6.7
2	6.3	6.1	6.2	6.6	6.4	6.6
3	6.3	6.1	6.2	6.6	6.4	6.5
4	6.4	6.1	6.2	6.6	6.4	6.5
5	6.4	6.2	6.3	6.6	6.5	6.5
6	6.4	6.2	6.3	6.7	6.5	6.6
7	6.3	5.6	6.0	6.8	6.6	6.7
8	6.4	5.7	6.2	6.8	6.6	6.7
9	6.5	6.2	6.4	6.8	6.5	6.7
10	6.7	6.5	6.6	6.7	6.4	6.5
11	6.7	6.5	6.6	6.6	6.4	6.5
12	6.6	6.4	6.5	6.6	6.5	6.6
13	6.4	6.3	6.4	6.7	6.5	6.6
14	6.4	6.3	6.4	6.6	6.5	6.6
15	6.4	6.3	6.3	6.7	6.5	6.6
16	6.4	6.2	6.3	6.7	6.5	6.6
17	6.4	6.3	6.4	6.7	6.6	6.6
18	6.4	6.3	6.4	6.7	6.6	6.7
19	6.6	6.3	6.4	6.8	6.7	6.7
20	6.4	6.3	6.3	6.8	6.7	6.8
21	6.4	6.0	6.3	6.9	6.6	6.8
22	6.4	6.2	6.3	6.7	6.6	6.6
23	6.4	6.1	6.2	---	---	---
24	6.4	6.2	6.3	---	---	---
25	6.2	6.1	6.2	---	---	---
26	6.3	6.1	6.2	---	---	---
27	6.2	6.1	6.2	---	---	---
28	6.2	6.1	6.1	---	---	---
29	6.1	5.9	6.0	---	---	---
30	6.2	6.1	6.2	6.5	6.4	6.5
31	6.3	6.1	6.3	6.4	6.3	6.4
MONTH	6.7	5.6	6.3	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.3	6.4	6.3	5.7	6.0	6.6	6.3	6.4	7.1	6.4	6.9
2	6.5	6.3	6.4	6.2	6.1	6.2	6.4	6.1	6.2	7.2	7.1	7.2
3	6.5	6.3	6.4	6.2	6.1	6.2	6.5	5.9	6.2	7.2	7.0	7.1
4	6.5	6.4	6.5	6.2	6.1	6.1	6.7	6.3	6.5	7.0	6.7	6.9
5	6.5	6.4	6.4	6.2	5.8	6.0	6.6	6.3	6.4	6.7	6.3	6.5
6	6.5	6.4	6.5	6.3	6.2	6.2	6.5	6.3	6.4	6.3	6.2	6.3
7	---	---	---	6.4	6.2	6.3	6.7	6.3	6.5	6.4	6.2	6.3
8	---	---	---	6.5	6.3	6.4	6.5	6.2	6.4	6.3	6.2	6.3
9	---	---	---	6.6	6.4	6.5	6.5	6.2	6.3	6.3	6.1	6.2
10	---	---	---	6.4	6.3	6.4	6.5	6.2	6.3	6.3	6.1	6.2
11	---	---	---	6.4	6.3	6.3	---	---	---	6.5	6.3	6.4
12	---	---	---	6.3	6.2	6.3	---	---	---	6.5	6.4	6.4
13	---	---	---	6.4	6.2	6.3	---	---	---	6.4	6.3	6.4
14	---	---	---	6.4	6.3	6.4	---	---	---	6.4	6.3	6.3
15	6.8	6.7	6.7	6.4	6.3	6.3	---	---	---	6.3	6.2	6.3
16	6.7	6.5	6.6	6.5	6.3	6.4	---	---	---	6.3	6.3	6.3
17	6.8	6.5	6.6	6.6	6.3	6.4	---	---	---	6.6	6.4	6.5
18	6.7	6.6	6.6	6.4	6.3	6.3	---	---	---	6.5	6.3	6.4
19	6.7	6.5	6.6	6.6	6.2	6.4	---	---	---	6.5	6.3	6.4
20	6.6	6.5	6.5	6.5	6.3	6.4	6.6	6.5	6.6	6.5	6.3	6.4
21	6.6	6.4	6.5	6.4	6.2	6.3	6.7	6.4	6.5	6.6	6.3	6.5
22	6.5	6.4	6.4	6.5	6.1	6.3	6.5	6.4	6.4	6.5	6.3	6.4
23	6.5	6.3	6.4	6.6	6.2	6.4	6.6	6.2	6.4	6.5	6.2	6.4
24	6.4	6.2	6.3	6.9	6.3	6.5	6.6	6.2	6.4	6.5	6.2	6.3
25	6.5	6.3	6.4	7.1	6.4	6.6	6.6	6.1	6.4	6.5	6.2	6.3
26	6.6	6.2	6.4	6.6	6.3	6.4	6.5	6.1	6.3	6.6	6.3	6.4
27	6.3	6.0	6.1	6.3	6.2	6.2	6.5	6.2	6.3	6.6	6.4	6.5
28	6.4	5.8	6.1	6.5	6.2	6.3	6.4	6.1	6.2	6.5	6.3	6.4
29	6.3	5.9	6.1	6.5	6.3	6.3	6.2	6.1	6.1	6.5	6.2	6.3
30	6.2	5.9	6.1	6.9	6.2	6.5	6.2	6.1	6.2	6.6	6.2	6.3
31	---	---	---	6.9	6.3	6.5	6.3	6.1	6.2	---	---	---
MONTH	---	---	---	7.1	5.7	6.3	---	---	---	7.2	6.1	6.5
PERIOD	7.2	5.6	6.4									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.7	2.7	3.8	10.5	10.4	10.4
2	5.5	3.0	4.3	10.5	10.2	10.3
3	5.7	3.1	4.6	10.3	9.8	10.0
4	5.8	3.8	4.9	9.9	9.4	9.6
5	6.2	4.1	5.1	9.8	9.3	9.6
6	6.0	3.8	5.0	10.5	9.6	10.0
7	5.7	3.4	4.4	10.5	10.2	10.4
8	5.0	2.6	3.9	10.5	10.1	10.3
9	7.8	3.7	6.3	10.3	9.7	10.1
10	9.0	6.8	7.6	10.1	9.7	10.0
11	9.0	7.7	8.3	10.3	9.7	10.0
12	8.7	6.8	7.6	10.7	10.2	10.5
13	8.3	6.4	7.1	11.0	10.6	10.8
14	8.3	6.4	7.2	11.0	10.6	10.9
15	7.7	6.3	7.1	10.8	10.4	10.7
16	8.0	6.4	7.4	10.5	10.0	10.4
17	8.0	6.6	7.2	10.4	10.1	10.3
18	7.8	6.5	7.1	10.4	10.0	10.3
19	7.9	6.4	6.9	10.7	10.1	10.5
20	7.0	6.4	6.6	10.9	10.4	10.7
21	7.7	6.4	6.9	10.9	10.7	10.8
22	7.1	5.8	6.4	11.1	10.6	10.8
23	8.0	5.5	6.4	---	---	---
24	7.8	5.6	6.6	---	---	---
25	7.0	5.7	6.3	---	---	---
26	6.3	5.3	5.8	---	---	---
27	6.2	5.1	5.5	---	---	---
28	5.7	4.6	5.1	---	---	---
29	4.9	4.2	4.6	---	---	---
30	4.6	3.5	4.2	10.5	10.3	10.4
31	7.3	3.5	5.5	10.4	10.1	10.2
MONTH	9.0	2.6	6.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.1	9.7	9.9	9.0	7.4	8.3	---	---	---	4.8	1.9	3.3
2	9.9	9.5	9.7	9.4	8.9	9.2	---	---	---	5.4	1.5	3.5
3	9.9	9.5	9.7	9.5	9.0	9.3	---	---	---	6.1	2.7	4.2
4	9.7	9.2	9.5	9.4	9.2	9.3	---	---	---	6.7	3.7	4.9
5	9.4	8.7	9.0	9.4	6.5	7.9	---	---	---	4.7	2.5	3.5
6	8.9	8.4	8.6	9.5	9.0	9.3	---	---	---	2.4	1.0	1.6
7	---	---	---	9.5	9.0	9.3	7.7	5.6	7.1	3.3	0.7	1.7
8	---	---	---	9.4	8.8	9.1	7.6	6.2	7.0	2.8	1.3	2.1
9	---	---	---	9.3	9.0	9.1	8.0	6.2	7.0	4.1	1.5	2.7
10	---	---	---	9.4	9.0	9.2	7.7	6.0	7.0	5.3	2.8	4.1
11	---	---	---	9.4	9.1	9.2	7.5	5.5	6.3	7.5	4.3	5.6
12	---	---	---	9.5	9.1	9.3	6.4	5.1	5.9	9.4	6.0	7.5
13	---	---	---	9.5	9.2	9.3	7.8	5.6	6.7	10.1	6.8	8.3
14	---	---	---	9.3	8.8	9.1	7.4	5.2	6.3	9.3	3.6	6.8
15	7.7	6.0	7.2	8.9	8.5	8.7	5.9	4.6	5.0	7.2	3.1	4.9
16	7.4	6.5	7.0	8.7	8.4	8.6	5.6	4.3	4.7	5.9	2.6	4.1
17	8.3	6.8	7.4	8.9	8.1	8.5	5.8	4.5	5.0	6.0	3.6	4.8
18	8.2	6.2	7.9	8.7	7.9	8.3	5.9	4.1	4.9	5.4	3.5	4.8
19	8.2	7.4	7.8	9.1	7.9	8.5	6.3	4.0	5.2	6.0	3.0	4.5
20	8.1	7.7	7.9	8.7	7.4	8.1	7.0	4.4	5.8	6.5	4.3	5.4
21	7.8	7.1	7.4	8.1	6.6	7.2	7.9	5.6	6.6	7.7	4.8	6.1
22	7.3	6.4	6.9	8.1	6.3	7.0	6.6	5.2	6.0	6.3	5.1	5.8
23	6.6	5.7	6.1	9.1	7.2	7.9	7.2	4.0	5.6	6.6	4.4	5.5
24	6.8	4.9	5.8	9.4	7.0	8.0	7.5	4.7	6.1	6.5	4.5	5.3
25	7.3	6.3	6.7	10.1	7.5	8.5	7.8	4.6	6.4	6.3	4.5	5.5
26	7.2	5.7	6.4	8.2	5.7	7.1	7.5	4.1	6.0	7.5	5.5	6.4
27	6.8	5.3	6.0	6.5	5.3	5.8	7.0	4.1	5.7	7.5	5.9	6.7
28	7.3	5.2	6.1	7.6	5.1	6.2	6.4	2.2	4.2	7.7	5.7	6.8
29	7.3	5.5	6.4	7.4	5.8	6.6	5.0	1.1	3.0	8.3	6.0	7.2
30	7.7	6.3	7.0	6.9	5.1	6.3	3.6	1.5	2.7	9.4	6.1	7.7
31	---	---	---	---	---	---	4.1	1.0	2.7	---	---	---
MONTH	---	---	---	10.1	5.1	8.3	8.0	1.0	5.6	10.1	0.7	5.0
PERIOD	11.1	0.7	7.0									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.5	18.0	12.0	11.5	12.0
2	18.0	17.0	17.5	13.0	11.5	12.0
3	18.0	16.5	17.5	14.5	12.5	13.5
4	18.5	17.0	17.5	15.5	14.0	14.5
5	18.5	17.5	18.0	15.0	14.5	14.5
6	18.5	17.5	18.0	14.5	14.0	14.0
7	18.0	17.5	17.5	15.5	13.5	14.0
8	17.5	17.0	17.5	15.5	13.5	14.5
9	17.0	15.0	16.0	14.5	14.0	14.5
10	15.5	14.5	15.0	15.5	13.5	14.0
11	15.0	14.0	14.5	14.5	14.0	14.5
12	14.5	14.0	14.0	15.0	14.0	14.5
13	14.0	13.5	14.0	15.0	14.0	14.5
14	13.5	12.5	13.0	15.5	14.0	14.5
15	13.5	12.0	13.0	14.5	14.5	14.5
16	12.0	11.0	11.5	15.5	14.0	14.5
17	12.0	11.0	11.5	15.5	14.0	15.0
18	11.5	10.5	11.0	15.0	14.0	14.5
19	11.0	10.0	10.5	14.0	13.5	13.5
20	10.0	9.0	9.5	14.5	13.5	14.0
21	9.5	8.5	9.0	13.5	13.0	13.5
22	9.5	8.5	9.0	13.5	13.0	13.5
23	10.5	9.0	9.5	---	---	---
24	11.0	10.0	10.5	---	---	---
25	11.0	10.0	10.5	---	---	---
26	10.5	9.5	10.0	---	---	---
27	10.5	9.5	10.0	---	---	---
28	11.0	10.0	10.5	---	---	---
29	11.0	10.5	10.5	---	---	---
30	11.0	10.0	10.5	16.5	16.5	16.5
31	10.5	9.5	10.0	17.0	16.0	16.5
MONTH	18.5	8.5	13.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.5	23.5	23.0	23.0	26.5	26.0	26.0	27.5	26.5	27.0
2	18.5	17.5	18.0	22.5	22.0	22.5	26.0	25.5	25.5	27.5	26.5	27.0
3	19.0	17.5	18.0	22.5	21.5	22.0	26.5	25.0	26.0	28.5	27.0	27.5
4	19.0	18.0	18.5	22.0	21.5	22.0	27.0	25.5	26.5	28.5	27.5	28.0
5	19.0	18.0	18.5	22.0	21.5	21.5	27.0	25.5	26.0	28.0	27.0	27.5
6	18.0	18.0	18.0	22.5	21.0	22.0	27.0	25.0	26.0	26.5	25.5	26.0
7	---	---	---	23.0	21.5	22.0	27.0	25.5	26.0	25.5	24.5	25.0
8	---	---	---	24.0	22.5	23.0	27.0	26.0	26.5	24.5	23.5	24.0
9	---	---	---	24.5	23.0	24.0	27.5	26.5	27.0	23.5	21.5	22.5
10	---	---	---	24.5	23.5	24.0	28.0	27.0	27.5	22.0	21.0	21.5
11	---	---	---	24.0	23.5	23.5	28.0	27.5	27.5	22.5	21.0	21.5
12	---	---	---	23.5	23.0	23.0	28.0	27.0	27.5	22.5	21.0	22.0
13	---	---	---	23.5	22.5	23.0	28.0	27.0	27.5	22.0	21.0	21.5
14	---	---	---	24.0	22.5	23.5	27.5	25.5	26.5	21.5	20.5	21.0
15	23.5	22.5	23.0	23.5	23.0	23.5	26.0	24.5	25.5	21.0	20.0	20.5
16	22.5	21.0	21.5	24.5	22.5	23.5	25.0	24.0	24.5	20.5	20.0	20.5
17	21.5	20.5	21.0	24.5	22.5	23.5	26.0	24.0	25.0	20.5	19.5	20.0
18	21.0	20.0	20.5	24.0	22.5	23.0	26.0	25.0	25.5	19.5	19.0	19.5
19	21.0	19.5	20.0	25.0	22.5	23.5	26.0	25.0	25.5	19.5	18.5	19.0
20	22.0	19.5	20.5	25.0	23.5	24.5	25.5	24.0	25.0	19.5	18.5	19.0
21	23.0	20.5	21.5	24.5	23.5	24.0	25.0	24.0	24.5	19.0	18.0	18.5
22	23.0	22.0	22.5	25.0	23.5	24.5	24.5	24.0	24.0	18.0	17.0	17.5
23	23.0	22.0	22.5	26.0	24.0	25.0	24.5	23.0	23.5	18.0	17.0	17.5
24	23.5	22.5	23.0	26.0	24.0	25.0	25.0	23.5	24.0	18.0	17.0	17.5
25	23.5	22.5	23.0	26.5	24.5	25.5	25.0	23.5	24.0	17.0	16.5	17.0
26	23.5	22.5	23.0	25.5	24.5	25.5	24.5	23.5	24.5	18.0	16.5	17.0
27	23.0	22.5	23.0	25.0	24.5	24.5	25.0	24.5	24.5	18.0	16.5	17.5
28	23.5	22.5	23.0	26.0	24.5	25.0	26.0	24.5	25.0	18.5	17.5	18.0
29	24.0	23.0	23.5	26.0	25.5	25.5	26.0	24.5	25.5	18.5	17.5	18.0
30	23.5	22.5	23.0	27.0	25.0	26.0	26.5	25.0	26.0	18.0	17.0	17.5
31	---	---	---	27.0	26.0	26.5	27.5	26.0	26.5	---	---	---
MONTH	---	---	---	27.0	21.0	24.0	28.0	23.0	25.5	28.5	16.5	21.0
PERIOD	28.5	8.5	20.0									

WEST BRANCH WESTPORT RIVER BASIN

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.

LOCATION.--Lat 41°33'30", long 71°07'47", Newport County, two-parameter monitor at gaging station on right bank 0.2 mi (0.3 km) upstream from milldam at Adamsville and 0.7 mi (1.[illegible] km) upstream from mouth.

DRAINAGE AREA.--7.91 mi² (20.49 km²).

PERIOD OF RECORD.--Chemical analyses: February to September 1973.
Water temperatures: July to September 1973.

EXTREMES.--Period of record:
Specific conductance: Maximum, 271 micromhos Sept. 17; minimum, 40 micromhos Apr. 9.
Water temperatures: Maximum, 25.5°C Sept. 4; minimum, 12.0°C Sept. 22.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), FEBRUARY TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	84	81	83	82	64	78	74	68	69
2	---	---	---	82	79	81	79	60	65	72	69	70
3	---	---	---	81	79	81	66	52	63	71	70	70
4	---	---	---	80	72	77	66	62	63	162	69	72
5	70	68	69	76	72	74	63	48	55	72	69	71
6	69	68	69	77	75	76	62	60	61	72	70	71
7	72	70	71	76	75	75	63	61	62	72	70	71
8	76	72	73	77	74	76	64	62	63	72	70	71
9	74	73	74	76	73	75	65	40	62	73	66	70
10	76	74	75	77	74	75	66	64	65	67	60	63
11	81	77	78	77	74	75	67	66	66	67	64	65
12	81	80	80	78	75	76	70	67	68	68	63	65
13	82	81	82	80	76	78	73	68	71	69	65	66
14	84	82	83	78	76	77	75	43	71	70	65	67
15	87	77	82	78	77	78	77	44	73	69	66	67
16	78	77	78	80	77	79	78	70	76	70	66	68
17	80	73	77	80	77	79	79	70	78	69	66	68
18	84	81	83	79	77	78	81	78	79	68	66	67
19	88	85	87	80	76	78	83	79	81	68	65	66
20	89	87	88	80	78	79	82	80	81	69	66	67
21	87	80	84	81	78	79	80	79	79	68	60	63
22	80	77	79	81	79	80	80	78	79	65	60	63
23	79	75	77	84	78	81	82	78	80	65	64	65
24	80	77	78	83	80	82	82	79	80	66	64	65
25	80	76	78	86	80	83	81	79	80	66	65	65
26	80	78	79	91	75	81	80	71	77	66	64	65
27	82	79	80	77	74	76	69	61	64	67	64	65
28	84	80	83	78	75	76	66	63	64	66	65	66
29	---	---	---	77	75	76	68	65	66	69	65	67
30	---	---	---	77	65	74	69	66	68	71	68	69
31	---	---	---	78	66	74	---	---	---	70	68	69
MONTH	89	68	79	91	65	78	83	40	71	162	60	67

01106000 ADAMSVILLE BROOK AT ADAMSVILLE, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), FEBRUARY 1973 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	71	68	70	---	---	---	83	82	82	91	84	87
2	72	69	70	---	---	---	85	84	85	94	89	92
3	72	69	71	---	---	---	87	86	86	100	94	96
4	72	70	71	---	---	---	85	83	84	101	97	99
5	74	71	72	---	---	---	84	80	82	101	99	100
6	74	72	73	---	---	---	90	79	84	103	101	102
7	76	73	74	---	---	---	85	79	81	104	102	103
8	77	75	76	---	---	---	84	77	80	105	100	103
9	79	76	77	---	---	---	81	76	80	107	105	106
10	81	78	79	---	---	---	84	80	82	112	108	110
11	83	80	81	---	---	---	85	80	83	115	109	112
12	83	79	81	---	---	---	89	82	86	118	112	116
13	83	75	80	---	---	---	91	88	89	121	114	117
14	73	67	69	---	---	---	94	90	92	121	113	118
15	76	71	73	---	---	---	94	71	84	116	91	102
16	76	74	75	---	---	---	70	64	66	104	93	97
17	76	73	74	---	---	---	77	71	74	271	105	114
18	75	74	75	71	68	69	78	76	77	111	104	108
19	73	71	72	70	68	69	78	76	77	104	96	98
20	71	69	70	79	69	73	78	75	76	107	99	102
21	69	67	68	78	63	67	76	70	73	112	108	110
22	66	65	65	64	61	62	70	69	70	113	109	111
23	63	61	62	65	63	64	71	68	69	112	91	102
24	62	59	60	66	63	64	74	68	71	92	90	91
25	60	57	58	67	64	65	75	71	73	92	88	98
26	56	55	55	65	65	65	78	71	75	94	90	92
27	---	---	---	69	66	67	77	73	75	95	92	94
28	---	---	---	73	70	72	81	75	78	106	95	101
29	---	---	---	75	74	74	84	77	80	106	100	103
30	---	---	---	79	76	77	88	80	83	112	103	105
31	---	---	---	81	80	80	88	86	87	---	---	---
MONTH	83	55	71	---	---	---	94	64	79	271	84	103
PERIOD	271	40	78									

TEMPERATURE (°C) OF WATER, JULY 1973 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	22.0	22.5	24.5	22.5	23.5
2	---	---	---	23.0	22.5	22.5	24.5	22.5	23.5
3	---	---	---	23.5	22.5	23.0	25.0	22.5	24.0
4	---	---	---	24.0	22.5	23.0	25.5	23.0	24.0
5	---	---	---	23.5	21.5	22.5	24.0	21.5	23.0
6	---	---	---	23.0	20.5	22.0	23.0	21.5	22.5
7	---	---	---	22.5	20.5	22.0	23.0	20.5	22.0
8	---	---	---	23.0	21.0	22.0	20.0	18.0	19.0
9	---	---	---	23.0	21.5	22.5	18.5	16.5	17.5
10	---	---	---	24.0	22.0	22.5	17.5	15.5	16.5
11	---	---	---	24.0	22.5	23.0	19.0	16.0	17.5
12	---	---	---	24.0	22.0	23.0	20.0	17.5	18.5
13	---	---	---	23.5	22.0	23.0	18.5	16.0	17.5
14	---	---	---	22.5	20.5	21.5	17.0	16.0	16.5
15	---	---	---	21.5	18.5	20.0	17.5	15.5	16.5
16	---	---	---	19.5	18.5	19.0	19.0	16.5	18.0
17	---	---	---	20.5	18.0	19.0	18.5	16.5	17.5
18	20.0	19.0	19.5	21.0	19.0	20.0	17.0	16.0	16.5
19	21.0	18.0	19.5	21.0	19.0	20.0	17.0	15.5	16.0
20	21.5	20.0	20.5	20.5	19.0	19.5	16.5	14.0	15.5
21	21.0	19.0	20.0	20.0	18.0	19.5	16.5	14.0	15.5
22	20.5	18.5	19.5	19.5	18.0	18.5	14.0	12.0	13.0
23	21.5	18.5	20.0	19.0	17.0	18.0	18.0	14.0	16.5
24	21.5	18.5	20.0	19.5	18.0	19.0	17.5	16.0	16.5
25	21.5	18.5	20.5	20.0	17.5	19.0	16.5	15.5	16.0
26	21.0	20.0	20.0	21.0	19.0	20.0	15.5	13.5	14.5
27	21.0	19.5	20.5	22.0	20.5	21.5	15.5	13.5	14.5
28	22.0	20.5	21.5	23.5	21.5	22.5	17.5	15.5	16.5
29	22.0	21.5	21.5	23.5	21.5	22.5	17.5	15.0	16.5
30	22.5	20.5	21.5	24.5	22.0	23.5	17.0	15.5	16.0
31	22.5	22.0	22.5	25.0	23.0	24.0	---	---	---
MONTH	---	---	---	25.0	17.0	21.5	25.5	12.0	18.0

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.

LOCATION.--Lat 41°52'46", long 71°15'18", Bristol County, two-parameter monitor at gaging station on left bank 20 ft (6 m) downstream from culvert on Homestead Avenue and 2.6 mi (4.2 km) north of Rehoboth.

DRAINAGE AREA.--4.96 mi² (12.85 km²).

PERIOD OF RECORD.--Chemical analyses: February to September 1973.
Water temperatures: July to September 1973.

EXTREMES.--Period of record:
Specific conductance: Maximum, 101 micromhos Aug. 14; minimum, 40 micromhos Mar. 29.
Water temperatures: Maximum, 30.0°C Aug. 31, Sept. 3; minimum, 11.0°C Sept. 22.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), FEBRUARY TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	86	80	82	71	62	69	62	57	60
2	---	---	---	82	78	80	61	53	55	64	61	63
3	---	---	---	77	46	75	53	52	52	65	63	64
4	---	---	---	74	66	70	55	50	52	66	64	65
5	62	60	61	68	65	66	53	50	52	65	63	64
6	65	61	63	65	64	65	56	52	54	66	63	64
7	66	65	66	66	64	65	60	55	57	67	62	64
8	69	66	67	67	63	66	59	58	58	66	63	65
9	71	67	69	68	66	67	63	58	60	65	61	64
10	77	70	74	68	65	66	61	56	59	62	60	61
11	79	76	77	69	66	67	56	54	55	60	55	58
12	85	79	82	72	68	70	57	54	56	55	53	54
13	86	82	84	74	44	68	60	56	58	55	52	54
14	89	82	85	73	70	72	63	58	61	58	53	55
15	83	70	76	73	43	70	66	61	64	58	56	57
16	72	70	71	76	43	72	68	64	66	61	56	59
17	78	70	74	75	43	69	69	66	67	61	57	59
18	83	76	80	73	43	70	72	67	69	60	57	59
19	84	81	82	71	68	70	72	68	70	61	57	59
20	82	79	81	70	69	69	70	67	69	60	58	59
21	80	50	73	70	68	69	70	67	68	57	53	54
22	79	75	77	70	69	69	72	68	70	52	51	52
23	79	74	76	74	42	64	72	69	71	53	50	52
24	80	49	76	77	42	71	74	70	71	57	52	55
25	81	48	76	78	73	75	77	69	70	57	55	56
26	78	48	74	76	74	74	69	58	65	57	54	55
27	81	48	77	75	43	73	58	52	54	57	54	56
28	86	78	82	74	42	70	54	52	53	57	55	56
29	---	---	---	73	40	70	54	53	53	61	56	58
30	---	---	---	73	70	72	58	54	56	63	58	61
31	---	---	---	72	70	71	---	---	---	66	60	63
MONTH	89	48	75	86	40	70	77	50	61	67	50	59

01109200 WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), FEBRUARY 1973 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	72	64	68	64	48	52	88	83	85	93	85	89
2	77	69	73	54	49	51	87	83	85	94	89	92
3	79	74	76	57	52	54	86	83	85	96	89	92
4	74	67	70	58	55	57	86	80	83	97	90	94
5	---	---	---	60	58	59	83	66	77	98	92	94
6	---	---	---	67	59	62	78	69	74	97	61	86
7	---	---	---	68	61	64	88	79	83	67	63	65
8	---	---	---	71	66	68	---	---	---	62	60	61
9	---	---	---	76	70	72	---	---	---	62	59	61
10	---	---	---	78	74	76	90	85	89	64	59	62
11	---	---	---	79	70	76	93	86	89	66	62	64
12	---	---	---	70	58	62	96	89	92	69	65	67
13	---	---	---	71	58	61	99	88	93	71	68	69
14	---	---	---	68	62	64	101	91	96	71	69	70
15	---	---	---	68	59	64	100	72	86	69	65	68
16	---	---	---	60	58	59	70	66	68	65	63	64
17	---	---	---	62	58	60	66	65	66	64	62	63
18	70	67	69	68	61	65	66	64	65	64	62	63
19	73	69	71	70	65	67	67	64	66	61	57	59
20	75	72	74	72	67	70	69	65	67	59	57	58
21	77	75	76	71	68	70	70	67	68	61	57	59
22	78	75	76	69	67	68	69	67	68	62	58	60
23	79	77	78	70	65	68	72	68	70	67	62	65
24	81	77	79	72	66	69	74	71	73	66	65	65
25	82	78	80	74	69	72	76	72	74	68	65	66
26	84	79	81	74	72	73	80	75	78	68	65	67
27	83	79	81	77	74	75	82	78	80	69	48	59
28	79	76	78	80	76	78	86	82	84	70	53	62
29	77	73	75	82	78	79	86	82	84	74	69	71
30	74	65	71	87	79	82	88	82	84	75	71	73
31	---	---	---	88	81	84	90	82	85	---	---	---
MONTH	---	---	---	88	48	67	101	64	79	98	48	70
PERIOD	101	40	69									

TEMPERATURE (°C) OF WATER, JULY 1973 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	25.0	21.5	23.0	28.0	22.0	24.5
2	---	---	---	23.5	22.0	22.5	28.5	22.5	24.5
3	---	---	---	23.5	22.0	23.0	30.0	22.5	25.5
4	---	---	---	27.5	22.5	24.5	29.5	23.0	25.5
5	---	---	---	28.0	21.5	24.5	24.0	21.5	23.0
6	---	---	---	28.0	20.5	24.0	25.0	20.0	21.5
7	---	---	---	27.5	20.5	24.0	20.0	18.5	19.5
8	---	---	---	---	---	---	18.0	16.5	17.5
9	---	---	---	---	---	---	18.0	15.5	16.5
10	---	---	---	---	---	---	17.5	14.5	16.0
11	---	---	---	30.0	23.5	25.5	18.5	14.5	16.5
12	---	---	---	29.0	22.0	25.5	20.0	16.5	18.0
13	---	---	---	29.0	21.0	25.0	19.5	16.5	17.0
14	---	---	---	27.5	19.5	23.5	16.5	15.0	15.5
15	---	---	---	22.5	18.0	20.0	16.5	14.5	15.5
16	---	---	---	19.5	18.0	18.5	17.5	14.5	16.0
17	---	---	---	21.5	18.0	19.5	16.5	14.5	15.5
18	18.5	17.5	18.0	21.5	19.0	20.0	15.5	14.0	14.5
19	21.5	16.5	19.0	21.5	18.5	20.0	16.0	13.5	15.0
20	22.0	18.5	20.5	21.5	18.0	19.5	14.5	12.5	13.5
21	21.0	18.5	20.0	21.5	18.0	19.5	15.0	12.5	13.5
22	22.5	18.0	20.0	19.0	16.5	18.0	12.5	11.0	11.5
23	23.0	18.5	20.5	21.0	15.5	18.0	16.5	12.5	15.0
24	24.0	18.0	21.0	22.0	17.0	19.0	16.0	14.5	15.0
25	23.0	18.5	21.0	21.5	17.0	19.0	16.0	13.0	14.5
26	21.0	19.5	20.0	24.0	18.0	21.0	14.5	12.0	13.5
27	22.5	19.0	21.0	24.0	19.5	21.5	16.0	12.5	14.5
28	24.0	21.0	22.5	24.5	21.0	22.5	18.0	12.5	16.0
29	23.0	22.0	22.5	27.0	20.0	23.5	17.0	14.0	15.0
30	25.5	20.5	23.0	28.5	21.0	24.5	16.5	12.5	14.5
31	26.0	21.5	23.5	30.0	22.0	25.0	---	---	---
MONTH	---	---	---	30.0	15.5	22.0	30.0	11.0	17.0
PERIOD	30.0	11.0	19.5						

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.

LOCATION.--Lat 42°01'16", long 71°34'04", Worcester County, multiple-parameter monitor on left bank 400 ft (100 m) above railroad bridge, 0.8 mi (1.3 km) southeast of Millville, and 1.4 mi (2.3 km) upstream from Branch River.

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--Chemical analyses: July 1969 to current year (no winter records in water year 1973).
Water temperatures: July 1969 to current year (no winter records in water year 1973).

EXTREMES.--Current year:
Specific conductance: Maximum, not determined; minimum, 49 micromhos June 30.
pH: Maximum, 7.4 Aug. 13; minimum, 4.3 Sept. 6.
Dissolved oxygen: Maximum, not determined; minimum, 1.0 mg/l Aug. 31, Sept. 1.
Water temperatures: Maximum, 28.0°C Aug. 10; minimum, probably freezing point on many days during winter period.
Period of record:
Specific conductance: Maximum, 898 micromhos Mar. 29, 1972; minimum, 49 micromhos June 30, 1973.
pH: Maximum, 8.1 July 9, 1970; minimum, 4.3 Sept. 6, 1973.
Dissolved oxygen: Maximum, 14.9 mg/l Feb. 25, 1971; minimum, 0.0 mg/l July 12, 15-20, 26-30, Aug. 2, 3, 1971.
Water temperatures: Maximum, 29.0°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station at Woonsocket and for Branch River at Forestdale, are available at district office. Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	307	267	282	---	---	---
2	294	266	282	187	180	182
3	275	245	260	197	175	185
4	267	252	258	199	174	190
5	310	274	293	194	169	183
6	295	281	288	191	170	182
7	301	193	252	184	170	178
8	233	142	157	197	175	186
9	188	164	176	190	185	192
10	207	182	188	194	171	185
11	213	199	207	183	155	167
12	232	216	227	170	134	155
13	244	219	234	172	148	161
14	250	225	233	176	154	163
15	254	229	244	180	156	166
16	244	231	240	188	153	171
17	231	218	223	185	151	167
18	260	224	240	173	156	167
19	263	252	259	180	156	172
20	275	242	256	175	158	169
21	281	249	264	168	125	144
22	278	269	273	157	119	141
23	271	254	262	159	143	154
24	257	240	249	166	138	154
25	274	235	245	180	151	166
26	292	257	269	182	158	171
27	297	270	285	179	162	174
28	302	281	292	179	159	170
29	304	258	281	183	158	173
30	302	245	278	188	151	172
31	245	225	234	196	166	179
MONTH	310	142	249	199	119	171

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	194	154	177	96	57	75	247	189	212	206	150	179
2	200	168	185	116	102	110	254	229	241	203	135	179
3	207	174	192	143	118	132	295	110	211	---	---	---
4	198	176	189	165	143	154	170	108	133	---	---	---
5	---	---	---	168	132	154	154	128	141	334	235	255
6	223	179	199	166	118	139	162	154	157	272	217	245
7	221	175	200	177	136	157	177	163	169	226	184	207
8	231	170	207	169	144	156	260	183	221	248	220	232
9	247	190	216	186	150	164	278	226	243	214	179	197
10	245	190	225	206	175	186	279	223	256	242	208	227
11	236	187	216	206	125	167	294	231	270	250	220	238
12	237	191	221	180	107	136	302	281	290	262	228	248
13	---	---	---	129	90	99	292	227	264	315	263	281
14	172	143	162	125	110	117	246	225	234	292	265	278
15	193	143	176	161	130	138	280	249	262	299	258	273
16	196	168	188	135	119	125	308	223	279	326	276	317
17	210	186	202	143	131	138	225	110	167	271	200	219
18	210	183	200	189	146	169	186	133	158	243	216	227
19	218	183	204	276	164	196	188	167	173	301	195	219
20	250	195	225	240	194	219	195	160	177	219	190	205
21	277	183	240	---	---	---	183	162	171	291	222	257
22	266	181	226	---	---	---	221	181	191	270	234	256
23	247	142	186	---	---	---	241	192	219	289	247	261
24	256	141	211	---	---	---	256	202	231	290	241	263
25	271	195	247	---	---	---	260	211	241	232	177	206
26	281	205	223	---	---	---	268	223	253	242	181	210
27	256	209	236	---	---	---	286	259	274	264	192	228
28	283	136	215	251	161	208	287	236	257	300	209	238
29	137	109	122	167	142	147	292	232	258	279	204	232
30	127	49	102	198	152	175	325	166	254	267	223	237
31	---	---	---	197	173	184	182	164	175	---	---	---
MONTH	283	49	200	---	---	---	325	108	219	334	135	236
PERIOD	334	49	206									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.3	6.7	---	---	---
2	7.2	6.2	6.8	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	6.9	6.8	6.9
10	---	---	---	7.1	6.9	6.9
11	6.9	6.5	6.7	7.0	6.9	6.9
12	6.7	6.3	6.6	7.0	6.7	6.9
13	6.9	6.3	6.6	7.1	6.7	6.9
14	6.8	6.1	6.6	7.2	6.9	7.0
15	6.8	6.3	6.6	7.0	6.8	7.0
16	6.9	6.6	6.8	7.1	6.9	7.0
17	7.0	6.3	6.7	7.1	6.9	7.0
18	6.9	6.3	6.7	7.1	6.9	7.0
19	6.9	6.6	6.9	7.2	7.0	7.1
20	7.0	6.4	6.8	7.1	7.0	7.0
21	---	---	---	7.1	6.9	7.0
22	---	---	---	7.1	6.8	6.9
23	---	---	---	7.1	6.9	7.0
24	---	---	---	7.2	7.0	7.1
25	---	---	---	7.0	6.8	7.0
26	---	---	---	7.0	6.7	6.9
27	---	---	---	7.1	6.8	7.0
28	---	---	---	6.9	6.9	6.9
29	---	---	---	7.1	6.8	6.9
30	---	---	---	7.2	6.8	7.0
31	---	---	---	7.0	6.7	6.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.7	6.8	6.7	6.2	6.4	6.8	6.5	6.6	6.8	6.3	6.6
2	7.0	6.7	6.8	6.8	6.5	6.7	6.5	6.4	6.5	6.8	6.5	6.6
3	7.0	6.7	6.8	6.9	6.6	6.8	6.5	6.1	6.3	7.1	6.3	6.6
4	6.8	6.6	6.7	6.8	6.6	6.7	6.6	6.0	6.3	---	---	---
5	6.9	6.7	6.8	7.1	6.3	6.7	6.9	6.4	6.6	6.7	5.5	5.9
6	6.9	6.7	6.8	7.3	6.8	7.1	7.0	6.5	6.8	5.6	4.3	5.0
7	6.9	6.6	6.7	7.3	7.0	7.2	7.1	6.7	6.9	6.7	4.9	6.0
8	6.9	6.7	6.7	7.3	7.0	7.1	6.9	6.6	6.8	6.5	5.9	6.3
9	7.1	6.7	6.9	7.3	6.9	7.1	7.0	6.7	6.8	6.7	6.0	6.4
10	7.1	6.8	7.0	7.3	6.9	7.0	7.1	6.7	6.9	6.7	6.1	6.4
11	7.2	6.8	7.0	6.9	6.7	6.8	6.9	6.7	6.8	6.7	6.1	6.4
12	7.2	6.8	6.9	6.8	6.6	6.7	7.0	6.6	6.8	6.7	6.3	6.5
13	6.9	6.7	6.8	6.7	6.4	6.5	7.4	6.7	7.0	6.6	6.3	6.5
14	6.8	6.5	6.6	6.9	6.5	6.7	7.3	6.9	7.1	6.5	6.2	6.3
15	6.7	6.4	6.6	6.7	6.4	6.5	7.0	6.6	6.8	6.3	5.8	6.1
16	6.8	6.6	6.7	6.7	6.3	6.5	6.8	6.5	6.6	6.8	6.0	6.5
17	6.8	6.6	6.7	6.8	6.4	6.6	6.9	6.5	6.7	7.0	6.5	6.7
18	6.7	6.5	6.6	6.7	6.4	6.6	6.6	6.2	6.5	6.8	5.9	6.4
19	6.8	6.5	6.6	6.7	6.4	6.5	6.8	6.3	6.6	7.0	6.5	6.7
20	6.7	6.5	6.6	6.5	6.4	6.4	7.0	6.4	6.7	6.7	6.5	6.6
21	7.2	6.6	6.8	6.4	6.3	6.3	7.1	6.5	6.8	6.7	6.5	6.6
22	7.0	6.7	6.8	6.6	6.1	6.3	6.7	6.5	6.6	6.6	5.2	6.3
23	6.8	6.5	6.6	6.8	6.4	6.6	6.8	6.4	6.6	6.7	5.0	5.9
24	6.9	6.5	6.7	7.1	6.6	6.7	6.8	6.3	6.5	6.2	5.6	5.9
25	6.8	6.7	6.7	6.7	6.6	6.7	6.8	6.4	6.5	6.7	5.5	6.1
26	6.8	6.7	6.7	6.7	6.5	6.6	6.8	6.3	6.5	6.6	5.8	6.4
27	6.7	6.6	6.7	6.6	6.3	6.5	6.7	6.3	6.5	6.5	5.0	6.2
28	6.6	6.5	6.6	6.7	6.1	6.4	6.8	6.1	6.5	6.5	5.9	6.3
29	6.6	6.4	6.5	6.6	6.3	6.4	7.0	6.3	6.6	6.5	5.1	6.2
30	6.5	6.1	6.3	6.6	6.4	6.5	7.1	6.4	6.7	6.4	6.2	6.3
31	---	---	---	6.8	6.4	6.6	7.1	6.5	6.7	---	---	---
MONTH	7.2	6.1	6.7	7.3	6.1	6.7	7.4	6.0	6.7	7.1	4.3	6.3
PERIOD	7.4	4.3	6.7									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER MAX	OCTOBER MIN	OCTOBER MEAN	MAY MAX	MAY MIN	MAY MEAN
1	4.0	2.5	3.2	---	---	---
2	4.6	3.3	3.9	7.8	7.3	7.5
3	4.5	3.2	3.8	7.6	6.8	7.2
4	4.3	3.1	3.6	7.4	6.7	6.9
5	4.0	2.8	3.4	7.8	6.8	7.4
6	3.7	2.7	3.2	8.6	7.4	8.0
7	4.9	3.1	4.1	8.9	7.8	8.3
8	5.9	4.1	5.4	8.5	7.2	7.9
9	6.8	5.9	6.4	7.3	7.0	7.2
10	7.8	6.7	7.1	7.5	6.7	7.1
11	7.3	6.5	7.0	7.2	6.5	6.8
12	6.4	5.6	6.1	7.3	6.7	7.1
13	6.5	5.7	6.1	7.7	7.1	7.4
14	6.7	5.5	6.1	7.9	7.1	7.5
15	6.5	5.7	6.1	7.4	6.9	7.1
16	7.0	6.4	6.6	7.8	6.9	7.2
17	7.0	6.5	6.7	7.4	6.6	7.0
18	7.0	6.0	6.6	7.3	6.6	6.9
19	7.3	6.4	6.9	7.9	7.0	7.4
20	8.0	6.6	7.4	7.5	6.9	7.2
21	8.7	7.5	8.1	7.5	6.5	7.2
22	8.1	7.3	7.8	7.6	7.3	7.4
23	7.5	6.5	7.1	7.7	7.0	7.3
24	6.4	5.6	5.8	7.1	6.5	6.9
25	5.9	5.0	5.4	6.8	6.5	6.7
26	6.4	4.9	5.7	7.5	6.5	7.1
27	6.7	5.3	5.9	8.1	7.3	7.7
28	6.4	5.5	6.0	7.6	6.9	7.3
29	6.0	5.1	5.5	7.1	5.2	6.7
30	5.5	5.1	5.3	7.0	4.9	6.4
31	6.6	5.2	6.1	6.2	4.9	5.5
MONTH	8.7	2.5	5.8	8.9	4.9	7.2

DAY	JUNE MAX	JUNE MIN	JUNE MEAN	JULY MAX	JULY MIN	JULY MEAN	AUGUST MAX	AUGUST MIN	AUGUST MEAN	SEPTEMBER MAX	SEPTEMBER MIN	SEPTEMBER MEAN
1	6.1	5.1	5.7	3.8	3.5	3.6	2.8	2.7	2.7	3.5	1.0	2.1
2	6.2	5.5	5.9	3.7	3.6	3.6	2.6	2.5	2.5	3.5	1.1	2.1
3	6.0	5.2	5.6	3.8	3.6	3.7	2.6	2.1	2.8	5.5	1.5	3.2
4	5.8	5.3	5.5	3.8	3.8	3.8	2.7	2.5	2.6	---	---	---
5	---	---	---	3.9	3.6	3.8	2.9	2.7	2.8	3.7	2.5	3.1
6	5.3	4.9	5.1	3.9	3.8	3.8	3.0	2.8	2.9	3.7	1.3	2.4
7	5.2	4.5	4.8	3.7	3.7	3.7	3.2	3.0	3.1	3.8	1.8	2.6
8	5.0	4.4	4.6	3.8	3.5	3.5	3.3	3.1	3.2	4.3	2.0	3.0
9	4.8	4.1	4.4	3.5	3.4	3.4	3.4	3.2	3.3	6.1	2.8	4.3
10	4.6	3.8	4.2	3.4	3.3	3.3	3.6	3.4	3.4	5.2	2.8	4.1
11	4.8	3.8	4.3	3.2	3.1	3.2	3.7	3.6	3.6	5.6	2.5	4.0
12	4.8	3.9	4.2	---	---	---	3.8	3.6	3.7	5.4	2.4	3.7
13	---	---	---	---	---	---	3.9	3.6	3.8	4.0	1.8	3.0
14	4.3	3.5	4.0	---	---	---	3.9	3.8	3.9	3.3	1.8	2.6
15	3.9	3.4	3.6	---	---	---	3.9	3.6	3.8	4.1	2.3	3.1
16	3.7	3.5	3.6	---	---	---	3.7	3.7	3.7	3.5	2.5	2.9
17	3.8	3.6	3.7	---	---	---	4.6	4.0	4.1	5.8	2.4	4.1
18	4.0	3.9	4.0	---	---	---	4.4	3.5	3.9	4.4	2.8	3.7
19	4.3	4.2	4.3	---	---	---	4.6	3.4	3.9	4.1	3.3	3.8
20	6.1	4.3	4.8	---	---	---	5.7	3.4	4.4	5.3	3.9	4.5
21	5.0	4.2	4.5	---	---	---	6.1	3.6	4.7	4.9	4.0	4.4
22	4.6	4.1	4.3	---	---	---	4.9	3.3	4.0	4.8	4.2	4.5
23	4.2	3.8	4.0	---	---	---	5.5	2.8	4.0	5.0	3.9	4.5
24	4.1	3.7	3.9	---	---	---	4.9	2.3	3.4	3.9	3.6	3.8
25	3.6	3.3	3.4	---	---	---	4.7	1.9	3.2	5.0	3.8	4.6
26	3.6	3.1	3.2	---	---	---	4.7	2.2	3.3	5.6	4.5	5.0
27	3.4	3.2	3.3	---	---	---	4.3	1.9	3.0	5.2	4.0	4.8
28	3.3	3.2	3.3	3.2	3.0	3.1	4.7	1.6	3.1	4.4	3.5	4.1
29	3.4	3.3	3.4	3.2	3.0	3.1	5.2	1.8	3.4	4.7	3.2	3.9
30	3.5	3.4	3.4	3.1	2.9	3.0	5.3	1.4	3.1	4.7	3.3	3.9
31	---	---	---	3.0	2.8	2.9	5.2	1.0	3.0	---	---	---
MONTH	6.2	3.1	4.3	---	---	---	6.1	1.0	3.4	6.1	1.0	3.6
PERIOD	8.9	1.0	4.7									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	14.5	16.0	---	---	---
2	15.5	13.0	14.0	---	---	---
3	15.5	13.0	14.0	16.5	16.0	16.5
4	16.0	13.5	15.0	16.0	16.0	16.0
5	16.0	14.0	15.0	16.0	15.5	16.0
6	16.5	15.0	16.0	15.5	15.5	15.5
7	16.5	16.0	16.5	15.0	14.5	15.0
8	17.0	16.0	16.5	15.0	14.5	14.5
9	16.0	13.5	14.5	14.5	14.5	14.5
10	13.0	11.5	12.0	14.5	14.0	14.0
11	12.5	10.5	11.5	15.0	14.5	14.5
12	13.0	11.0	12.0	15.5	15.0	15.0
13	13.0	11.5	12.5	16.0	15.5	15.5
14	12.0	11.0	11.5	16.5	15.5	16.0
15	12.5	11.0	11.5	16.5	16.0	16.5
16	11.0	10.0	10.5	16.0	15.5	16.0
17	11.5	10.5	11.0	16.0	15.5	15.5
18	10.5	9.0	9.5	15.5	15.0	15.5
19	9.5	8.5	9.0	15.0	14.5	15.0
20	8.0	7.0	7.5	15.0	14.5	14.5
21	7.5	6.0	7.0	14.5	14.0	14.5
22	8.0	7.0	7.5	14.0	13.5	14.0
23	11.0	8.0	9.5	14.0	13.5	14.0
24	12.5	10.5	11.5	14.0	13.5	14.0
25	12.5	11.5	12.0	15.0	15.0	15.0
26	11.5	10.0	10.5	15.5	15.5	15.5
27	10.5	9.0	10.0	16.5	16.0	16.5
28	10.5	9.5	10.0	17.5	17.0	17.0
29	12.5	10.5	11.5	18.0	17.5	17.5
30	12.0	10.5	11.5	19.0	18.0	18.5
31	10.5	9.0	9.5	21.0	19.5	20.0
MONTH	17.5	6.0	12.0	21.0	13.5	15.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	19.0	20.5	23.5	22.0	22.5	25.5	24.0	24.5	27.0	25.0	26.0
2	21.5	19.5	20.5	24.5	22.5	23.5	25.0	24.0	24.5	27.0	25.5	26.5
3	21.0	18.5	20.0	25.0	23.0	24.0	25.0	24.0	24.0	27.5	25.5	26.5
4	20.0	19.0	19.5	25.0	24.0	24.0	26.0	24.5	25.0	28.0	26.0	27.0
5	21.0	19.5	20.5	24.0	23.0	23.0	26.0	24.0	25.0	27.0	25.0	26.0
6	21.5	19.5	19.5	24.5	22.0	23.0	26.0	24.0	25.0	25.0	23.5	24.5
7	22.0	20.5	21.0	25.0	22.5	24.0	26.5	24.5	25.5	23.5	22.0	22.5
8	23.5	21.0	22.0	26.5	24.0	25.0	26.5	25.0	26.0	22.0	20.5	21.0
9	24.5	22.5	23.5	27.5	25.0	26.5	27.0	25.5	26.0	20.5	19.0	20.0
10	25.0	23.0	24.0	27.5	26.0	26.5	28.0	26.0	27.0	20.0	18.0	19.0
11	26.0	23.0	24.5	27.0	25.5	26.0	27.5	26.5	27.0	20.0	18.0	19.0
12	27.0	24.5	26.0	25.0	22.5	24.0	27.0	25.5	26.5	20.5	19.0	20.0
13	25.5	22.5	24.0	23.0	21.0	22.0	26.5	24.5	25.5	20.0	18.5	19.0
14	23.5	21.5	22.5	24.5	22.0	23.5	25.5	24.0	24.5	19.0	18.0	18.5
15	23.0	21.5	22.5	24.5	22.0	23.5	24.5	22.0	23.0	18.5	17.0	18.0
16	22.0	20.5	21.5	23.5	21.0	22.0	22.0	21.5	22.0	19.0	17.5	18.5
17	21.5	20.0	20.5	23.5	21.5	22.5	23.0	21.0	22.0	19.0	17.5	18.0
18	20.5	19.0	19.5	23.5	21.5	22.5	23.5	22.0	23.0	17.5	17.0	17.5
19	20.5	19.0	19.5	24.5	21.5	23.0	24.0	22.5	23.0	17.5	16.5	17.0
20	21.5	19.5	21.0	25.0	23.0	24.0	23.5	21.5	22.5	17.0	16.0	17.0
21	23.5	21.5	22.5	24.5	23.0	23.5	23.5	21.5	22.5	17.0	15.5	16.5
22	24.0	23.0	23.0	24.0	22.0	23.0	22.5	21.0	21.5	15.5	14.5	15.0
23	23.5	22.0	22.5	24.5	22.5	23.5	22.0	20.0	21.0	17.5	15.0	16.5
24	24.0	21.5	22.5	25.0	22.5	24.0	22.5	20.5	21.5	17.5	16.0	17.0
25	24.0	22.5	23.5	25.5	23.0	24.0	22.5	21.0	22.0	16.5	15.5	16.0
26	23.5	23.0	23.0	25.0	23.0	24.0	23.5	21.5	22.5	16.5	15.0	15.5
27	22.5	22.0	22.5	23.5	22.5	23.0	24.5	22.5	23.5	17.5	15.5	16.5
28	23.0	21.5	22.0	24.5	22.5	23.5	25.0	23.5	24.0	18.5	17.0	17.5
29	23.0	22.5	23.0	25.0	24.0	24.5	25.5	23.5	24.5	17.5	16.0	17.0
30	23.0	22.0	22.0	25.5	23.5	24.5	26.5	24.5	25.5	17.0	15.5	16.5
31	---	---	---	25.5	24.0	24.5	27.0	25.0	26.0	---	---	---
MONTH	27.0	18.5	22.0	27.5	21.0	24.0	28.0	20.0	24.0	28.0	14.5	19.5
PERIOD	28.0	6.0	19.5									

01116500 PAWTUXET RIVER AT CRANSTON, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, two-parameter monitor at gaging station on left bank at Cranston, 0.7 mi (1.1 km) upstream from Pocasset River.

DRAINAGE AREA.--200 mi² (518 km²).

PERIOD OF RECORD.--Chemical analyses: June 1969 to current year.
Water temperatures: November 1961 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, greater than 550 micromhos Sept. 14, 15; minimum, 64 micromhos Dec. 9.
Water temperatures: Maximum, 30.0°C Aug. 14; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, greater than 550 micromhos Jan. 30, 31, Feb. 5, 6, Nov. 24, 1971, Sept. 14, 15, 1973; minimum, 64 micromhos Dec. 9, 1972.
Water temperatures: Maximum, 30.0°C July 1, 1964, Aug. 14, 1973; minimum, freezing point on many days during winter periods 1965-70, 1972-73.

REMARKS.--Conductance and temperature probes not operating at times. Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	215	200	210	---	---	---	120	110	117	138	128	130
2	195	179	186	---	---	---	123	102	111	158	144	149
3	195	158	181	---	---	---	101	97	99	156	138	144
4	193	158	181	---	---	---	150	91	110	160	150	158
5	196	166	186	---	---	---	142	114	122	150	144	146
6	198	185	191	---	---	---	130	93	115	238	146	185
7	200	165	189	---	---	---	102	75	93	223	106	168
8	200	194	196	---	---	---	108	86	97	138	80	130
9	199	192	195	---	---	---	84	64	74	140	119	127
10	196	150	181	---	---	---	87	67	75	145	125	134
11	185	155	171	---	---	---	122	87	98	176	134	160
12	166	149	159	---	---	---	144	99	116	168	155	159
13	159	148	156	---	---	---	146	93	109	168	149	161
14	161	155	159	---	---	---	115	87	98	169	135	148
15	166	154	161	---	---	---	218	125	149	137	121	127
16	158	151	155	---	---	---	246	133	184	167	120	138
17	208	150	161	---	---	---	131	111	120	182	154	167
18	184	139	147	---	---	---	134	111	122	180	148	166
19	151	124	142	---	---	---	175	122	140	192	150	174
20	192	133	146	---	---	---	162	134	147	192	169	183
21	176	105	122	---	---	---	130	121	125	200	185	194
22	128	104	115	---	---	---	185	115	128	199	112	153
23	140	126	135	---	---	---	198	122	145	160	107	132
24	176	134	156	---	---	---	120	110	118	169	132	152
25	137	123	133	---	---	---	110	95	100	185	129	156
26	172	140	159	---	---	---	97	95	96	181	135	154
27	158	140	153	100	89	97	98	91	96	175	140	157
28	177	155	171	114	99	107	106	98	103	160	126	142
29	195	151	158	128	100	115	106	105	105	121	101	108
30	171	162	168	118	110	115	108	102	106	163	107	136
31	166	154	160	---	---	---	130	110	120	198	124	166
MONTH	215	104	164	---	---	---	246	64	114	238	80	152

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	148	127	137	178	143	161	213	159	183	139	105	123
2	232	96	169	184	149	164	152	102	116	143	103	125
3	113	72	92	208	151	183	158	126	144	179	120	145
4	110	95	100	149	130	136	166	125	146	210	141	163
5	107	92	97	141	115	132	151	127	142	205	142	179
6	126	109	116	154	113	136	169	134	152	152	126	138
7	128	110	119	165	132	150	188	138	167	143	109	131
8	158	116	127	139	122	128	202	188	197	197	103	138
9	159	124	133	163	137	151	202	149	195	224	156	174
10	128	108	117	154	134	144	---	---	---	206	123	168
11	114	98	105	153	128	137	---	---	---	154	107	138
12	123	112	118	173	132	156	---	---	---	182	105	139
13	160	122	141	174	114	147	---	---	---	170	112	140
14	165	129	150	176	144	156	---	---	---	117	92	101
15	197	128	157	178	144	161	---	---	---	165	96	129
16	178	128	159	180	155	169	---	---	---	224	145	183
17	210	151	185	185	150	169	---	---	---	217	142	175
18	163	134	147	178	124	139	---	---	---	194	139	159
19	149	117	141	144	115	129	---	---	---	228	142	167
20	116	105	110	149	103	121	---	---	---	160	138	149
21	151	111	131	192	142	167	---	---	---	128	91	101
22	169	142	154	181	161	170	---	---	---	174	101	136
23	166	152	160	185	155	165	---	---	---	149	113	134
24	165	134	151	185	152	162	---	---	---	---	---	---
25	174	130	149	180	154	168	---	---	---	---	---	---
26	238	161	195	199	124	170	190	149	175	---	---	---
27	167	119	144	183	125	162	198	112	165	---	---	---
28	180	148	162	186	142	163	146	100	120	---	---	---
29	---	---	---	223	164	183	108	84	101	---	---	---
30	---	---	---	224	177	191	100	83	92	---	---	---
31	---	---	---	229	174	193	---	---	---	207	162	181
MONTH	238	72	138	229	103	157	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	229	141	172	182	126	147	313	241	269	302	250	267
2	251	159	193	190	112	147	288	236	257	313	295	301
3	224	191	206	---	---	---	354	266	301	308	303	306
4	219	134	188	---	---	---	377	358	369	310	291	303
5	208	134	146	---	---	---	363	349	353	336	248	300
6	260	186	211	---	---	---	400	361	382	252	217	232
7	263	186	212	---	---	---	365	266	321	229	205	219
8	316	206	252	---	---	---	288	231	253	278	229	247
9	308	261	294	---	---	---	225	199	210	294	257	272
10	294	258	275	---	---	---	251	204	223	317	282	304
11	290	279	285	---	---	---	296	245	269	278	258	265
12	292	214	250	---	---	---	357	299	317	298	270	285
13	284	223	260	---	---	---	421	366	405	268	245	257
14	321	255	288	---	---	---	422	398	407	>550	243	---
15	335	317	324	---	---	---	401	125	241	>550	160	---
16	340	320	333	---	---	---	176	122	152	158	105	136
17	333	305	319	---	---	---	168	138	150	102	88	92
18	307	280	294	---	---	---	137	122	129	169	92	141
19	384	272	309	---	---	---	127	116	120	201	128	169
20	424	342	397	---	---	---	133	125	128	238	201	222
21	341	296	315	---	---	---	152	126	140	261	233	247
22	394	305	332	---	---	---	162	153	157	359	243	288
23	524	401	465	---	---	---	253	163	208	443	358	404
24	472	410	437	---	---	---	335	254	283	407	277	362
25	407	249	375	---	---	---	365	334	351	241	171	180
26	---	---	---	---	---	---	331	278	288	204	174	191
27	---	---	---	---	---	---	269	206	242	253	194	216
28	364	238	297	---	---	---	294	192	237	298	257	286
29	440	329	406	---	---	---	292	225	244	290	252	267
30	389	197	270	---	---	---	320	229	276	331	293	316
31	---	---	---	394	323	358	321	275	307	---	---	---
MONTH	524	134	289	---	---	---	422	116	258	550	88	253
YEAR	>550	64	183									

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	23.5	24.0	11.0	10.0	10.5	6.0	5.0	5.5	4.0	3.5	3.5
2	21.5	17.5	19.0	12.5	11.0	11.5	5.5	5.0	5.0	3.5	3.5	3.5
3	23.5	17.0	21.5	13.5	11.5	12.0	6.5	5.0	6.0	3.5	3.0	3.0
4	19.0	16.0	16.5	11.5	10.0	10.5	6.0	5.0	5.5	3.0	3.0	3.0
5	20.0	12.5	17.0	10.0	9.0	9.5	5.0	4.5	5.0	3.0	3.0	3.0
6	22.0	13.0	20.0	9.0	9.5	9.5	6.5	5.0	5.5	3.0	3.0	3.0
7	23.5	20.5	22.0	10.5	9.0	10.0	7.5	5.5	6.5	4.0	0.5	3.0
8	22.5	7.5	13.0	10.5	10.0	10.5	6.5	4.5	5.0	5.5	0.0	0.0
9	8.0	6.5	7.5	10.5	9.5	10.0	6.5	5.5	6.0	0.0	0.0	0.0
10	8.0	7.5	8.0	10.0	9.0	9.5	6.5	5.5	6.0	0.0	0.0	0.0
11	9.0	6.5	8.0	10.5	9.5	9.5	7.0	5.0	5.5	0.5	0.0	0.0
12	8.5	6.5	7.5	10.0	9.5	9.5	5.0	4.0	4.5	0.5	0.0	0.0
13	12.5	7.5	9.0	10.5	9.5	10.0	5.5	4.0	4.5	0.5	0.0	0.0
14	14.5	10.0	12.5	10.5	9.0	10.0	5.0	4.5	4.5	0.5	0.0	0.0
15	14.0	11.5	12.5	9.0	7.5	8.0	6.0	3.0	4.5	1.5	0.5	1.0
16	15.5	12.0	14.0	7.5	7.0	7.5	4.0	3.0	3.5	2.0	0.5	1.5
17	17.5	12.0	14.5	7.5	6.5	7.0	3.5	1.5	2.5	2.5	1.5	2.0
18	16.0	11.0	14.0	7.5	7.0	7.5	3.5	1.5	2.0	3.5	2.0	3.0
19	12.5	7.5	10.0	7.5	7.0	7.5	4.0	2.5	3.0	3.5	2.5	3.0
20	12.5	8.5	11.0	9.5	7.5	8.5	4.5	2.5	3.0	4.0	2.5	3.5
21	17.0	8.0	10.0	9.0	7.0	8.0	2.0	2.0	2.0	2.5	1.5	2.0
22	10.0	6.5	8.5	7.0	5.5	6.0	2.0	1.5	1.5	2.5	1.0	1.5
23	16.0	8.0	11.5	6.0	4.5	5.0	2.0	1.5	1.5	4.5	2.5	3.5
24	13.0	12.0	12.5	5.5	4.5	4.5	2.5	2.0	2.0	4.0	2.5	3.5
25	12.5	10.5	12.0	5.5	5.0	5.5	2.5	2.5	2.5	3.0	1.5	2.5
26	11.5	11.0	11.0	8.0	5.5	6.5	3.0	2.5	3.0	3.0	1.5	2.0
27	12.5	11.0	11.5	7.0	6.0	6.0	3.0	3.0	3.0	3.0	2.0	2.5
28	13.0	12.0	13.0	7.0	6.0	6.5	4.0	3.0	3.5	3.0	2.5	2.5
29	12.5	11.0	12.0	6.0	5.0	5.5	4.0	3.5	3.5	2.0	1.0	2.0
30	10.5	10.0	10.5	5.5	5.0	5.0	4.5	4.0	4.0	1.0	0.0	0.5
31	10.5	9.5	10.0	---	---	---	4.5	4.0	4.5	0.5	0.0	0.0
MONTH	24.5	6.5	13.0	13.5	4.5	8.0	7.5	1.5	4.0	5.5	0.0	2.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.0	3.5	1.5	2.0	9.0	7.0	8.0	---	---	---
2	3.5	1.0	1.5	4.5	2.5	3.5	9.0	8.5	9.0	---	---	---
3	4.0	3.0	3.5	4.0	3.5	4.0	9.0	8.0	8.5	---	---	---
4	3.5	2.5	3.0	5.0	3.5	4.0	9.0	7.5	8.5	---	---	---
5	3.5	2.0	2.5	7.0	5.0	6.0	9.0	7.5	8.0	---	---	---
6	3.0	2.0	2.0	5.5	4.5	5.0	9.5	7.5	8.5	---	---	---
7	3.0	2.0	2.5	5.0	4.5	4.5	11.0	8.0	9.5	---	---	---
8	3.5	2.0	3.0	6.0	4.5	5.5	10.0	8.0	9.0	---	---	---
9	3.5	1.5	2.5	7.0	5.5	6.5	8.5	7.0	8.0	---	---	---
10	2.0	0.5	1.0	6.5	5.5	6.0	---	---	---	---	---	---
11	1.0	0.5	0.5	6.5	5.0	5.5	---	---	---	---	---	---
12	1.0	0.0	0.5	9.5	6.0	8.0	---	---	---	---	---	---
13	1.5	0.5	1.0	9.0	7.5	8.5	---	---	---	---	---	---
14	2.5	1.0	1.5	8.0	7.0	7.5	---	---	---	---	---	---
15	2.5	1.5	2.0	7.0	6.5	6.5	---	---	---	---	---	---
16	2.5	1.5	2.0	8.5	6.5	7.5	---	---	---	---	---	---
17	1.5	0.0	0.5	8.5	7.5	8.0	---	---	---	---	---	---
18	1.0	0.0	0.5	8.5	7.0	7.5	---	---	---	---	---	---
19	2.0	0.0	1.0	8.5	6.5	7.5	---	---	---	---	---	---
20	2.5	0.5	1.5	6.5	5.0	6.0	---	---	---	---	---	---
21	3.5	1.0	2.5	6.0	4.5	5.5	---	---	---	---	---	---
22	3.5	2.0	3.0	5.5	4.0	4.5	---	---	---	---	---	---
23	3.5	2.0	2.5	5.5	3.5	4.5	---	---	---	---	---	---
24	3.0	1.5	2.0	7.0	4.5	6.0	---	---	---	---	---	---
25	3.0	1.0	2.0	8.0	5.5	7.0	---	---	---	---	---	---
26	3.5	2.5	3.0	8.5	7.5	8.0	---	---	---	---	---	---
27	2.5	1.0	1.5	8.5	7.0	7.5	---	---	---	---	---	---
28	2.0	0.5	1.5	9.0	6.5	7.5	---	---	---	---	---	---
29	---	---	---	8.5	6.5	7.5	---	---	---	---	---	---
30	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
31	---	---	---	8.5	7.5	8.0	---	---	---	---	---	---
MONTH	4.0	0.0	2.0	9.5	1.5	6.0	---	---	---	---	---	---

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	21.0	22.0	25.5	24.0	24.5	26.5	25.0	25.5
2	---	---	---	24.5	21.5	23.0	25.0	24.0	24.5	27.0	25.0	26.0
3	---	---	---	25.0	22.0	24.0	25.0	24.0	24.5	26.5	24.5	25.5
4	---	---	---	---	---	---	26.0	24.5	25.5	27.0	25.0	26.0
5	---	---	---	24.0	21.5	23.5	27.0	24.5	25.5	26.0	24.5	25.5
6	21.5	19.5	20.5	---	---	---	27.0	24.5	25.5	24.5	24.0	24.5
7	22.5	20.5	21.5	---	---	---	27.0	24.5	25.5	24.0	22.5	23.5
8	23.5	21.5	22.5	---	---	---	26.5	24.5	25.5	22.5	21.0	22.0
9	25.5	22.5	23.5	---	---	---	27.0	24.5	26.0	21.5	19.5	20.5
10	25.5	22.5	24.0	---	---	---	27.5	25.0	26.5	20.5	18.0	19.5
11	26.0	23.0	24.5	---	---	---	27.5	25.5	26.5	20.5	18.5	19.5
12	27.5	25.0	26.0	---	---	---	27.5	25.5	26.5	21.0	18.5	20.0
13	25.5	21.5	25.0	---	---	---	26.5	24.5	25.5	20.5	18.5	19.5
14	25.0	23.0	23.5	---	---	---	30.0	24.0	25.0	19.5	18.0	18.5
15	24.0	22.0	23.0	---	---	---	25.0	21.0	23.0	18.5	17.5	18.0
16	23.0	21.0	22.0	---	---	---	21.5	20.5	21.0	19.0	18.0	18.5
17	23.0	19.5	21.0	---	---	---	23.5	21.5	22.5	19.0	18.5	18.5
18	21.5	19.0	19.5	---	---	---	24.5	23.0	23.5	18.0	17.5	18.0
19	21.5	19.0	20.0	---	---	---	24.0	23.0	23.5	18.5	17.0	18.0
20	24.0	20.0	21.5	---	---	---	23.0	22.0	22.5	18.0	17.0	17.5
21	23.5	21.5	22.5	---	---	---	23.5	21.5	22.5	17.5	16.0	17.0
22	24.0	22.0	23.0	---	---	---	22.5	21.0	22.0	16.5	15.5	16.0
23	22.5	22.0	22.0	---	---	---	22.0	20.0	21.0	17.5	16.0	17.0
24	---	---	---	---	---	---	22.5	21.0	21.5	17.0	16.5	16.5
25	---	---	---	---	---	---	22.5	21.0	22.0	17.0	16.0	16.5
26	---	---	---	---	---	---	23.0	21.0	22.0	16.5	15.5	16.0
27	---	---	---	---	---	---	24.0	21.5	23.0	17.0	16.0	16.5
28	23.0	21.0	22.0	---	---	---	24.5	23.0	24.0	17.5	16.5	17.0
29	23.5	22.0	23.0	---	---	---	25.5	23.5	24.5	18.0	16.5	17.0
30	23.0	21.5	22.0	---	---	---	26.5	24.5	25.5	17.5	16.5	17.0
31	---	---	---	25.0	24.5	25.0	27.0	24.5	26.0	---	---	---
MONTH	---	---	---	---	---	---	30.0	20.0	24.0	27.0	15.5	19.5
YEAR	30.0	0.0	11.0									

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.

LOCATION.--Lat 42°01'40", long 71°57'22", Worcester County, multiple-parameter monitor on right bank, 50 ft (15 m) upstream from bridge on State Highway 131, 0.2 mi (0.3 km) upstream from Massachusetts-Connecticut State line, 0.4 mi (0.6 km) upstream from gaging station at Quinebaug, Conn., and 2.0 mi (3.2 km) southwest of Dudley, Mass.

DRAINAGE AREA.--156 mi^2 (404 km^2) at gage at Quinebaug, Conn.

PERIOD OF RECORD.--Chemical analyses: October 1968 to current year (no winter record in water year 1973).
Water temperatures: October 1968 to current year (no winter record in water year 1973).
Prior to October 1971, published as "at Quinebaug, Conn."

EXTREMES.--Current year:
Dissolved oxygen: Maximum not determined; minimum recorded, 1.4 mg/l Aug. 27.
Water temperatures: Maximum recorded, 30.5°C Sept. 4; minimum, probably freezing point on many days during winter period.
Period of record:
Specific conductance (1968-72): Maximum recorded, 393 micromhos Sept. 24, 1970; minimum, 56 micromhos Feb. 20, 1972.
pH (1968-72): Maximum, 9.0 July 13, 16, 1971; minimum, 4.9 July 18, 1970.
Dissolved oxygen (1968-73): Maximum, 19.6 mg/l Feb. 12, 1972; minimum, 0.4 mg/l Aug. 28, 1970.
Water temperatures (1968-73): Maximum recorded, 32.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Quinebaug, Conn. (sta 01124000) are used for this site. Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	191	163	180	---	---	---
2	161	148	154	---	---	---
3	160	152	158	105	97	99
4	161	160	161	117	100	107
5	167	160	163	113	103	109
6	170	161	164	108	101	103
7	166	106	142	110	103	107
8	127	119	122	117	108	111
9	---	---	---	121	112	115
10	---	---	---	122	106	113
11	114	112	113	109	98	101
12	123	109	116	105	98	101
13	139	123	132	106	97	99
14	146	120	129	107	97	100
15	124	117	121	109	100	103
16	126	119	123	108	98	101
17	130	116	125	109	100	105
18	122	116	119	108	99	103
19	116	108	112	110	101	105
20	108	101	104	121	98	101
21	106	95	99	105	88	97
22	98	91	94	125	106	115
23	94	89	92	113	100	107
24	98	91	95	126	102	110
25	100	95	98	---	---	---
26	104	98	102	110	95	99
27	108	101	106	106	97	99
28	118	108	112	105	97	100
29	121	115	119	104	96	99
30	125	120	123	102	97	100
31	---	---	---	105	97	101
MONTH	191	89	124	126	88	104

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	110	100	103	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	133	125	130	193	170	180
5	---	---	---	---	---	---	133	123	128	200	186	190
6	---	---	---	107	102	105	129	119	127	201	171	190
7	---	---	---	110	104	107	129	116	123	195	184	190
8	---	---	---	109	100	104	133	122	128	201	175	190
9	---	---	---	106	98	102	134	120	128	214	186	200
10	---	---	---	106	101	103	139	127	134	229	200	220
11	---	---	---	122	107	110	140	128	134	232	158	200
12	---	---	---	123	113	117	138	127	132	180	164	170
13	---	---	---	127	115	120	135	126	131	188	170	180
14	---	---	---	125	116	120	142	133	137	229	182	210
15	---	---	---	124	121	123	144	140	142	221	167	190
16	---	---	---	130	120	126	153	138	143	166	147	160
17	---	---	---	138	121	129	155	135	148	223	151	170
18	---	---	---	132	125	129	156	145	151	227	144	190
19	---	---	---	146	131	137	155	142	149	145	123	130
20	124	120	122	153	141	147	151	142	147	153	142	150
21	131	118	123	157	130	144	149	139	144	160	148	150
22	---	---	---	129	122	125	152	138	145	170	160	160
23	---	---	---	137	127	131	168	153	158	175	160	170
24	---	---	---	144	129	138	174	157	166	182	175	180
25	---	---	---	146	130	140	175	157	168	180	148	167
26	---	---	---	151	146	148	173	154	164	172	160	165
27	126	120	123	151	149	150	170	154	165	175	164	170
28	119	113	115	---	---	---	---	---	---	173	165	169
29	---	---	---	---	---	---	---	---	---	182	157	172
30	---	---	---	---	---	---	---	---	---	157	126	136
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	232	123	176

PH (UNITS) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.3	6.5	---	---	---
2	7.2	6.6	6.8	---	---	---
3	7.0	6.6	6.8	---	---	---
4	6.8	6.5	6.6	---	---	---
5	6.6	6.4	6.5	---	---	---
6	6.6	6.2	6.4	---	---	---
7	6.4	6.1	6.3	7.2	6.7	7.0
8	6.6	6.3	6.4	7.0	6.6	6.8
9	6.6	6.4	6.5	6.8	6.6	6.7
10	6.8	6.4	6.6	7.1	6.6	6.8
11	7.0	6.5	6.6	---	---	---
12	6.6	6.5	6.6	---	---	---
13	6.6	6.4	6.5	---	---	---
14	6.8	6.5	6.6	---	---	---
15	6.6	6.5	6.5	---	---	---
16	6.7	6.5	6.6	---	---	---
17	6.6	6.4	6.6	7.0	6.4	6.8
18	6.7	6.6	6.6	6.8	6.4	6.6
19	6.7	6.6	6.6	6.8	6.4	6.6
20	6.9	6.6	6.8	6.9	6.4	6.7
21	7.1	6.7	6.8	---	---	---
22	6.7	6.6	6.7	---	---	---
23	6.8	6.6	6.6	---	---	---
24	6.8	6.3	6.5	---	---	---
25	6.3	6.2	6.3	---	---	---
26	7.0	6.3	6.5	7.0	6.3	6.7
27	7.0	6.4	6.5	7.1	6.5	6.8
28	6.7	6.4	6.5	6.9	6.6	6.8
29	6.5	6.3	6.4	7.1	6.3	6.9
30	6.4	6.3	6.4	7.0	6.3	6.8
31	---	---	---	6.8	6.1	6.6
MONTH	7.2	6.1	6.6	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.7	6.8	6.9	6.8	6.8	---	---	---	---	---	---
2	---	---	---	6.9	6.8	6.8	---	---	---	---	---	---
3	---	---	---	6.9	6.8	6.8	6.6	6.6	6.6	---	---	---
4	---	---	---	6.8	6.7	6.8	6.9	6.6	6.7	6.9	6.2	6.5
5	---	---	---	6.8	6.7	6.7	7.0	6.7	6.8	6.3	6.2	6.3
6	---	---	---	6.8	6.6	6.7	7.0	6.7	6.8	6.5	6.3	6.4
7	---	---	---	6.7	6.5	6.6	6.9	6.6	6.7	6.4	6.2	6.3
8	---	---	---	6.8	6.6	6.7	6.9	6.6	6.7	6.5	6.3	6.4
9	---	---	---	6.8	6.5	6.6	6.9	6.5	6.7	6.6	6.5	6.5
10	---	---	---	6.7	6.4	6.6	6.8	6.5	6.6	6.6	6.4	6.5
11	---	---	---	6.8	6.5	6.6	6.8	6.5	6.6	6.5	6.3	6.5
12	---	---	---	---	---	---	7.0	6.5	6.7	6.4	6.3	6.3
13	---	---	---	6.9	6.5	6.7	6.9	6.4	6.7	6.4	6.2	6.3
14	---	---	---	7.0	6.5	6.7	6.7	6.5	6.6	6.5	6.3	6.5
15	---	---	---	6.7	6.5	6.6	6.7	6.5	6.6	6.7	6.5	6.6
16	---	---	---	7.2	6.5	6.8	6.8	6.5	6.6	6.7	6.5	6.6
17	---	---	---	7.1	6.5	6.8	6.7	6.5	6.6	6.7	6.6	6.6
18	---	---	---	6.8	6.5	6.6	7.0	6.4	6.7	6.8	6.6	6.7
19	---	---	---	6.8	6.3	6.5	6.8	6.5	6.6	6.9	6.7	6.8
20	6.7	6.4	6.5	6.5	6.2	6.4	6.8	6.5	6.6	6.6	6.3	6.5
21	6.5	6.3	6.4	6.3	6.1	6.2	6.8	6.3	5.6	6.6	6.4	6.5
22	---	---	---	6.5	6.2	6.3	6.6	6.3	6.4	6.7	6.4	6.6
23	---	---	---	6.5	6.2	6.3	---	---	---	6.8	6.6	6.7
24	---	---	---	6.4	6.0	6.2	6.6	6.2	6.4	6.5	6.4	6.5
25	---	---	---	6.5	6.1	6.3	6.6	6.2	6.4	6.6	6.4	6.5
26	---	---	---	6.4	6.2	6.3	6.7	6.3	6.4	6.6	6.3	6.5
27	6.8	6.6	6.7	6.3	6.2	6.3	6.7	6.2	6.4	6.5	6.3	6.4
28	7.0	6.8	6.9	---	---	---	---	---	---	6.5	6.3	6.4
29	6.9	6.8	6.8	---	---	---	---	---	---	6.8	6.5	6.7
30	6.9	6.8	6.9	---	---	---	---	---	---	6.8	6.6	6.7
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.2	6.0	6.6	---	---	---	6.9	6.2	6.5

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	4.2	5.9	---	---	---
2	7.9	6.4	6.9	---	---	---
3	8.0	5.9	6.5	---	---	---
4	7.9	5.7	6.6	---	---	---
5	7.6	4.3	6.1	---	---	---
6	6.6	3.3	4.8	---	---	---
7	7.7	3.1	5.6	10.2	8.8	9.4
8	8.7	7.8	8.2	10.0	8.3	9.2
9	9.4	8.1	8.8	9.2	8.3	8.7
10	10.0	8.9	9.4	---	---	---
11	10.2	9.3	9.7	---	---	---
12	9.6	9.0	9.3	---	---	---
13	9.4	8.9	9.1	---	---	---
14	9.9	9.0	9.4	---	---	---
15	9.9	9.0	9.4	---	---	---
16	10.3	9.3	9.8	---	---	---
17	9.4	8.8	9.0	9.7	8.1	8.8
18	9.7	9.0	9.4	9.1	8.0	8.5
19	10.1	9.4	9.7	9.5	7.8	8.7
20	10.7	10.0	10.3	9.1	7.1	8.3
21	11.1	10.3	10.7	---	---	---
22	10.9	10.3	10.6	---	---	---
23	10.4	9.2	10.0	---	---	---
24	9.6	8.7	9.1	---	---	---
25	9.4	8.4	8.9	---	---	---
26	9.6	8.8	9.0	11.1	9.5	10.4
27	9.4	8.5	8.9	11.3	9.5	10.6
28	9.1	8.2	8.6	10.7	9.2	10.1
29	8.4	7.5	8.0	10.4	8.3	9.5
30	9.1	7.8	8.3	9.7	8.0	8.8
31	---	---	---	8.7	7.1	7.9
MONTH	11.1	3.1	8.5	---	---	---

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	7.5	7.9	6.6	6.1	6.4	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	7.0	5.8	6.8	---	---	---	---	---	---
4	---	---	---	6.5	5.9	6.2	6.0	4.8	5.3	---	---	---
5	---	---	---	6.7	6.2	6.4	6.2	5.3	5.7	---	---	---
6	---	---	---	7.0	6.2	6.6	6.5	5.1	5.8	---	---	---
7	---	---	---	7.1	6.1	6.6	6.3	4.4	5.4	---	---	---
8	---	---	---	7.0	5.9	6.5	5.7	3.9	4.8	---	---	---
9	---	---	---	6.9	5.6	6.2	5.6	3.9	4.7	---	---	---
10	---	---	---	6.8	5.4	6.0	5.5	3.8	4.6	---	---	---
11	---	---	---	6.8	4.6	5.6	5.7	3.8	4.4	---	---	---
12	---	---	---	6.7	4.2	5.5	5.9	4.2	4.9	5.5	3.8	4.4
13	---	---	---	7.4	5.7	6.6	6.1	4.6	5.2	5.5	3.5	4.4
14	---	---	---	7.3	5.1	6.1	5.9	4.1	5.0	4.8	3.6	4.2
15	---	---	---	6.5	5.3	5.9	5.1	4.3	4.6	6.2	4.4	5.3
16	---	---	---	7.6	5.6	6.6	5.9	4.3	4.9	5.8	4.0	4.8
17	---	---	---	7.4	5.2	6.3	5.9	3.6	4.7	6.2	4.0	5.0
18	---	---	---	7.3	5.2	6.1	6.3	3.9	5.0	6.5	4.6	5.4
19	---	---	---	7.2	4.2	5.8	6.9	4.6	5.3	6.8	6.3	6.6
20	---	---	---	6.6	3.5	5.1	6.9	5.2	5.7	6.5	5.4	6.1
21	---	---	---	5.8	3.5	4.8	7.7	5.1	6.3	6.7	5.7	6.2
22	---	---	---	7.3	5.7	6.4	7.3	4.9	6.3	6.9	6.0	6.4
23	---	---	---	7.3	5.1	6.3	5.5	2.3	4.6	7.2	6.2	6.6
24	---	---	---	6.4	3.8	5.4	5.5	1.7	3.4	6.7	6.2	6.5
25	---	---	---	6.5	4.0	5.2	5.3	1.7	3.2	7.5	6.8	7.1
26	---	---	---	5.8	4.1	4.8	6.0	2.0	3.7	7.7	6.6	7.1
27	6.8	6.0	6.6	5.3	4.7	5.0	5.9	1.4	3.2	7.4	5.4	6.7
28	6.6	5.5	6.1	---	---	---	---	---	---	6.4	5.1	5.7
29	6.4	5.4	5.8	---	---	---	---	---	---	7.5	6.3	6.9
30	6.6	5.4	6.2	---	---	---	---	---	---	7.4	6.6	6.9
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	7.6	3.5	6.0	---	---	---	---	---	---

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	15.0	16.5	20.0	9.5	14.0
2	16.5	13.5	15.0	18.0	13.0	16.0
3	17.5	14.0	15.5	19.5	16.0	18.0
4	19.0	15.0	16.5	18.5	16.0	17.5
5	19.0	15.0	16.5	16.0	13.5	15.0
6	19.0	15.5	17.5	14.5	12.0	13.5
7	18.0	16.0	17.5	15.5	11.5	14.0
8	16.0	15.0	15.5	16.0	13.5	15.0
9	15.0	13.0	14.0	15.5	13.0	14.0
10	12.5	11.0	12.0	18.0	13.0	15.0
11	12.0	10.0	11.5	17.0	15.0	16.0
12	12.5	12.0	12.0	17.0	13.5	15.0
13	13.0	11.5	12.5	15.5	12.5	14.0
14	12.0	10.5	11.5	17.0	12.0	14.5
15	12.0	9.5	11.0	15.0	13.5	14.0
16	9.5	9.0	9.5	17.5	13.0	14.5
17	12.0	10.0	10.5	18.5	14.0	16.0
18	10.5	9.0	9.5	17.5	14.5	16.0
19	9.5	8.0	9.0	16.5	12.5	15.0
20	8.0	6.5	7.0	16.0	13.5	15.0
21	7.0	5.5	6.5	14.5	13.0	14.0
22	7.5	6.5	7.0	14.5	10.0	12.0
23	10.5	7.5	9.0	16.5	10.0	13.5
24	12.5	10.5	11.5	19.0	13.0	15.5
25	12.0	10.0	11.5	---	---	---
26	11.0	9.5	10.0	14.0	11.5	13.0
27	11.0	9.0	9.5	13.5	11.0	12.5
28	11.0	9.0	10.0	13.5	11.5	12.5
29	12.0	11.0	11.5	19.0	13.0	16.0
30	11.0	9.5	10.5	21.5	15.0	19.0
31	---	---	---	21.0	17.0	19.5
MONTH	19.0	5.5	12.0	21.5	9.5	15.0

01123990 QUINEBAUG RIVER NEAR DUDLEY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	18.0	19.0	24.0	22.5	23.0	---	---	---	---	---	---
2	---	---	---	25.0	23.0	24.0	---	---	---	---	---	---
3	---	---	---	25.5	23.5	24.5	---	---	---	---	---	---
4	---	---	---	25.0	24.0	24.5	26.5	25.0	26.0	30.5	29.0	30.0
5	---	---	---	24.0	23.5	24.0	26.0	25.0	25.5	28.0	27.0	28.0
6	---	---	---	24.5	22.5	23.5	26.5	25.0	26.0	27.0	26.0	26.5
7	---	---	---	25.0	22.5	24.0	27.0	25.5	26.0	26.5	24.5	25.5
8	---	---	---	25.5	23.5	24.5	27.5	26.0	26.5	24.5	22.5	23.5
9	---	---	---	26.5	24.5	25.5	27.5	26.0	27.0	24.0	21.5	22.5
10	---	---	---	26.0	25.0	25.5	28.0	26.0	27.0	23.0	19.5	21.5
11	---	---	---	26.0	24.5	25.5	27.5	26.5	27.0	23.0	19.5	21.5
12	---	---	---	24.5	23.0	24.0	27.5	26.0	26.5	23.0	21.0	22.0
13	---	---	---	24.0	22.0	23.0	27.0	25.0	26.0	22.5	20.0	21.5
14	---	---	---	25.5	23.0	24.0	26.5	24.5	25.5	21.0	20.0	20.5
15	---	---	---	24.0	23.0	23.5	25.0	24.0	25.0	21.0	19.5	20.0
16	---	---	---	24.5	22.5	23.5	25.0	24.0	24.5	21.0	19.5	20.0
17	---	---	---	25.0	23.0	24.0	26.0	24.0	25.0	20.0	18.5	19.0
18	---	---	---	24.5	23.0	23.5	26.5	24.5	25.5	19.0	18.0	18.5
19	---	---	---	26.5	22.5	24.5	26.0	24.5	25.0	18.5	17.5	18.0
20	24.5	23.5	24.0	26.5	24.5	25.5	26.0	24.0	24.5	19.0	18.0	18.5
21	25.0	23.5	24.0	25.5	24.5	25.0	26.0	24.0	25.0	18.5	17.5	18.0
22	---	---	---	26.0	24.0	25.0	26.0	24.0	25.0	17.5	17.0	17.5
23	---	---	---	26.5	24.5	25.5	25.5	24.0	24.5	18.0	17.0	17.5
24	---	---	---	27.0	25.0	26.0	26.5	23.5	25.0	17.5	17.5	17.5
25	---	---	---	28.0	25.5	26.5	26.0	24.0	25.0	18.0	17.0	17.5
26	---	---	---	26.0	25.5	26.0	26.5	24.0	25.0	17.5	17.0	17.5
27	24.0	23.5	24.0	25.5	25.5	25.5	27.0	24.5	25.5	18.0	17.0	17.5
28	24.0	23.0	23.5	---	---	---	---	---	---	18.0	17.5	18.0
29	24.5	24.0	24.0	---	---	---	---	---	---	18.0	17.5	18.0
30	24.0	23.0	23.5	---	---	---	---	---	---	18.5	17.5	18.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	28.0	22.0	24.5	---	---	---	30.5	17.0	20.5

01124750 BROWNS BROOK NEAR WEBSTER, MASS.

LOCATION.--Lat 42°03'24", long 71°49'51", Worcester County, two-parameter monitor at gaging station on left bank 15 ft (5 m) downstream from culvert on State Highway 16 and 1.8 mi (2.9 km) east of Webster.

DRAINAGE AREA.--0.49 mi^2 (1.27 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1971 to current year.
Water temperatures: November 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 127 micromhos Nov. 14; minimum, 32 micromhos June 13.
Water temperatures: Maximum, 21.5°C Sept. 4; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 132 micromhos Feb. 13, 1972; minimum, 32 micromhos June 13, 1973.
Water temperatures: Maximum, 21.5°C Sept. 4, 1973; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	59	58	58	59	58	58	47	46	47	65	54	58
2	59	57	58	59	55	57	47	44	45	58	51	54
3	65	57	60	58	55	56	47	44	46	52	50	51
4	66	64	65	58	57	57	54	45	46	66	49	52
5	66	64	65	57	56	57	54	48	49	53	51	52
6	66	65	65	56	55	56	49	41	46	52	50	51
7	66	49	57	56	55	56	44	42	43	53	52	52
8	62	56	59	56	50	54	---	---	---	53	52	52
9	63	62	63	51	48	50	45	42	44	52	52	52
10	63	63	63	49	47	48	44	42	43	52	51	52
11	63	62	62	48	47	47	43	41	42	52	50	51
12	62	60	61	47	47	47	41	40	41	51	51	51
13	61	59	60	47	47	47	61	40	45	52	51	51
14	61	59	61	127	42	50	45	43	44	51	51	51
15	61	60	60	56	45	46	43	40	42	51	51	51
16	61	60	60	45	44	45	43	41	42	51	50	51
17	61	58	60	45	44	45	45	41	43	51	51	51
18	61	60	60	46	45	45	46	44	45	52	50	51
19	60	58	59	46	45	46	47	45	46	51	50	51
20	60	59	60	47	42	44	48	46	47	52	50	51
21	60	60	60	44	43	44	48	48	48	52	50	51
22	60	60	60	44	44	44	56	48	53	52	51	51
23	60	58	59	44	44	44	55	54	54	52	48	49
24	59	58	59	44	44	44	55	54	54	50	49	49
25	62	59	60	45	44	44	55	54	54	51	48	49
26	62	61	61	44	41	42	54	54	54	52	49	50
27	62	60	61	43	41	42	56	54	55	52	50	51
28	61	55	59	44	43	43	56	55	55	54	51	52
29	58	56	57	44	43	44	55	55	55	53	49	51
30	59	56	58	44	44	44	55	54	55	54	51	53
31	59	58	59	---	---	---	76	54	60	56	54	55
MONTH	66	49	60	127	41	48	76	40	48	66	48	52

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	57	55	56	57	55	56	56	54	55	48	44	46
2	---	---	---	57	56	56	54	53	54	48	46	47
3	---	---	---	56	55	56	54	53	53	48	46	47
4	---	---	---	71	56	63	54	50	53	47	46	46
5	---	---	---	61	59	60	52	50	51	47	46	46
6	49	48	48	61	60	61	52	50	51	47	46	46
7	48	47	48	61	60	60	52	50	51	48	46	47
8	49	48	49	72	59	64	51	50	50	47	46	47
9	49	47	48	67	63	65	52	50	51	46	45	46
10	50	49	50	65	63	64	51	48	49	48	45	46
11	50	49	50	64	61	62	49	47	48	46	45	45
12	50	49	50	62	60	61	50	47	49	47	45	45
13	50	48	49	61	59	61	50	49	49	46	45	45
14	50	49	50	61	59	60	51	49	50	46	45	46
15	57	45	52	60	59	60	51	49	50	47	45	46
16	73	52	55	60	58	59	52	50	50	48	45	46
17	55	50	52	61	57	58	51	50	50	48	46	47
18	53	51	52	59	57	58	52	50	51	48	45	47
19	54	52	53	59	56	58	52	50	51	47	46	47
20	55	53	54	57	56	57	51	50	50	46	44	46
21	54	53	54	58	56	57	51	50	50	45	43	44
22	55	54	54	57	56	57	53	50	51	45	44	45
23	55	54	55	57	56	57	52	50	51	45	44	45
24	56	54	55	57	56	57	51	49	50	46	45	45
25	56	54	55	57	56	57	51	50	50	45	45	45
26	66	55	58	57	56	57	50	47	49	45	44	45
27	57	54	55	57	56	56	48	46	47	45	44	44
28	56	54	55	57	56	57	47	45	46	44	43	44
29	---	---	---	57	56	56	46	45	46	45	43	44
30	---	---	---	57	56	56	48	44	46	45	44	45
31	---	---	---	56	56	56	---	---	---	45	44	44
MONTH	73	45	52	72	55	59	56	44	50	48	43	46

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	45	44	45	40	38	39	40	39	40	50	46	48
2	45	44	44	40	39	40	41	38	40	53	46	49
3	45	43	44	41	40	41	40	38	39	57	49	51
4	44	43	44	41	41	41	40	39	40	53	49	50
5	44	43	44	41	40	41	41	39	40	53	49	51
6	44	43	43	42	40	41	42	37	40	55	42	49
7	43	43	43	42	41	42	42	40	41	46	45	45
8	43	42	42	44	42	43	43	40	41	47	45	46
9	43	42	42	44	43	43	42	40	41	49	46	47
10	43	41	42	44	43	44	43	41	42	49	46	47
11	43	41	42	45	43	44	42	40	42	50	47	49
12	43	42	42	44	43	44	42	40	41	50	48	49
13	42	32	39	44	43	44	42	40	41	49	48	49
14	40	36	39	44	43	44	42	40	41	50	46	49
15	40	39	39	43	42	43	42	37	38	48	46	47
16	39	38	39	43	41	42	38	37	38	49	48	49
17	38	37	38	42	41	42	39	37	38	49	49	49
18	37	37	37	43	41	42	40	39	39	49	41	47
19	38	36	37	43	41	42	42	39	40	48	46	47
20	38	37	37	43	41	42	41	39	39	49	47	48
21	38	38	38	43	40	41	43	39	41	49	48	48
22	39	38	38	42	40	41	42	40	41	50	48	49
23	38	38	38	42	41	42	43	40	41	50	48	49
24	39	38	39	43	41	42	44	42	43	49	47	49
25	40	39	39	42	40	41	45	42	43	48	47	47
26	41	40	40	41	40	41	46	42	44	49	48	48
27	41	38	40	41	39	41	46	43	44	50	49	49
28	39	38	39	41	40	41	46	43	44	51	50	50
29	40	40	40	41	40	41	52	44	47	52	50	51
30	40	38	38	40	37	39	54	45	48	52	51	51
31	---	---	---	40	38	39	53	46	49	---	---	---
MONTH	45	32	40	45	37	42	54	37	41	57	41	49
YEAR	127	32	49									

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	12.0	13.0	9.5	8.5	8.5	4.5	4.0	4.0	3.0	2.0	2.5
2	13.0	11.0	12.0	9.5	8.5	9.0	4.5	4.0	4.0	3.0	1.5	2.5
3	13.0	11.5	12.0	10.5	9.0	10.0	5.5	4.0	4.5	1.5	1.0	1.5
4	13.5	12.0	12.5	9.0	8.5	9.0	5.0	3.5	4.0	1.5	0.5	1.5
5	13.5	12.0	12.5	9.0	8.5	8.5	4.5	4.0	4.0	2.0	1.0	1.5
6	13.5	12.5	13.0	9.0	8.5	8.5	6.5	4.0	5.0	1.0	0.0	0.5
7	14.0	13.5	13.5	9.0	8.0	8.5	6.0	3.5	4.5	0.0	0.0	0.0
8	13.5	13.0	13.0	9.0	8.5	8.5	3.5	2.5	3.0	0.0	0.0	0.0
9	12.5	11.5	12.0	8.5	8.0	8.5	5.5	3.5	4.5	0.0	0.0	0.0
10	11.5	10.5	11.0	8.5	7.5	8.0	6.0	5.0	5.5	0.0	0.0	0.0
11	11.5	10.0	10.5	8.0	7.5	7.5	5.5	3.5	4.5	0.0	0.0	0.0
12	11.5	11.0	11.5	8.0	7.5	8.0	3.5	2.5	3.0	0.0	0.0	0.0
13	11.5	10.5	11.0	8.5	8.0	8.0	4.5	3.0	3.5	0.0	0.0	0.0
14	11.0	9.5	10.5	8.0	6.0	7.0	4.5	3.5	3.5	0.0	0.0	0.0
15	11.0	9.5	10.5	6.0	5.5	6.0	3.0	1.0	2.5	0.5	0.0	0.0
16	10.5	9.5	10.0	5.0	4.5	5.0	2.5	1.0	2.0	1.0	0.0	0.5
17	11.0	10.0	10.5	5.0	4.0	4.5	1.0	0.5	0.5	1.5	0.5	1.0
18	10.0	9.0	9.5	5.5	4.5	5.0	2.0	0.5	1.0	2.0	1.0	1.5
19	9.5	8.5	9.0	5.0	4.5	5.0	2.0	1.5	2.0	3.0	0.5	1.5
20	8.5	8.0	8.5	6.0	5.0	5.5	2.5	1.5	2.0	2.0	0.0	1.0
21	8.5	7.5	8.0	6.0	4.5	5.0	1.5	1.0	1.0	1.0	0.0	0.0
22	9.0	8.0	8.5	4.5	3.0	3.5	2.5	1.5	2.0	2.0	0.0	0.5
23	10.5	9.0	9.5	3.0	2.5	2.5	2.5	2.0	2.0	2.5	1.5	2.0
24	11.0	10.0	10.5	3.5	2.5	3.0	3.0	2.5	2.5	2.0	1.0	1.5
25	10.5	9.0	10.0	4.5	3.5	4.0	3.5	2.5	3.0	1.5	0.0	1.0
26	10.0	8.5	9.0	6.5	4.0	5.5	3.5	3.0	3.5	2.0	0.5	1.0
27	10.0	8.5	9.0	6.0	5.5	6.0	3.5	3.0	3.0	2.0	1.0	1.5
28	10.5	9.0	10.0	6.0	5.5	6.0	3.0	2.5	2.5	1.5	1.0	1.5
29	11.0	10.5	10.5	6.0	5.0	5.5	2.5	1.5	2.0	1.0	0.0	0.0
30	10.0	9.0	9.5	4.0	3.5	4.0	1.5	1.5	1.5	0.5	0.0	0.0
31	9.0	8.0	8.5	---	---	---	2.0	1.5	2.0	0.0	0.0	0.0
MONTH	14.0	7.5	10.5	10.5	2.5	6.5	6.5	0.5	3.0	3.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.5	0.0	0.5	6.0	4.5	5.5	11.5	8.0	9.5
2	---	---	---	4.0	1.0	2.0	6.0	5.0	5.5	12.0	9.5	10.5
3	---	---	---	2.0	1.5	1.5	5.5	5.0	5.0	13.0	10.5	11.5
4	---	---	---	3.0	1.5	2.0	6.0	4.5	5.0	12.0	10.0	11.0
5	---	---	---	4.0	1.5	2.5	5.5	4.0	5.0	10.5	9.0	10.0
6	---	---	---	3.5	1.5	2.0	6.5	4.5	5.5	10.0	8.5	9.5
7	1.0	0.5	1.0	2.5	1.5	2.0	7.5	4.5	6.0	11.5	8.5	9.5
8	2.0	1.0	1.5	3.5	2.5	3.0	6.5	4.5	5.5	11.0	8.5	9.5
9	1.5	0.0	0.5	4.5	2.0	3.0	7.0	4.0	5.5	10.0	9.5	9.5
10	0.5	0.0	0.0	4.5	2.0	3.0	6.5	5.0	5.5	12.5	9.5	10.5
11	0.5	0.0	0.0	3.5	2.5	3.0	6.0	4.0	5.0	12.0	10.5	10.5
12	0.5	0.0	0.0	5.5	3.5	4.5	6.5	3.5	4.5	12.5	10.0	10.5
13	0.5	0.0	0.0	6.5	3.5	4.5	6.5	3.5	5.0	11.0	9.5	10.0
14	1.0	0.0	0.5	5.0	3.5	4.0	7.5	4.0	5.5	11.5	9.0	10.0
15	1.0	0.0	0.5	4.5	4.0	4.0	8.5	4.5	6.0	10.0	9.5	10.0
16	1.0	0.0	0.5	6.5	4.0	5.0	9.0	5.0	7.0	11.0	9.5	10.0
17	0.0	0.0	0.0	7.0	5.0	5.5	8.5	6.5	7.5	11.0	9.0	10.0
18	0.0	0.0	0.0	5.5	3.5	4.5	10.5	7.5	8.5	10.5	9.5	10.0
19	0.5	0.0	0.0	5.0	3.0	4.0	11.5	8.0	9.5	11.0	9.0	10.0
20	2.0	0.0	1.0	4.0	3.0	3.5	11.0	7.5	9.0	10.5	9.5	10.0
21	2.0	0.5	1.0	4.5	2.5	3.5	10.5	7.0	8.5	10.5	9.5	10.0
22	2.0	0.5	1.0	3.0	2.0	2.5	12.5	8.0	10.0	11.0	9.5	10.0
23	2.5	0.0	1.0	5.0	1.5	3.0	13.0	9.5	11.0	11.0	9.0	10.0
24	2.0	0.0	0.5	6.0	2.0	3.5	12.5	9.0	10.5	11.5	10.5	11.0
25	2.0	0.0	0.5	6.5	3.0	4.5	12.0	9.0	10.5	10.5	10.0	10.5
26	2.0	0.0	0.5	5.0	4.5	4.5	10.0	8.5	9.0	10.0	9.5	9.5
27	1.0	0.0	0.0	6.5	3.5	5.0	8.5	7.5	8.0	10.5	9.0	9.5
28	1.0	0.0	0.0	6.5	3.0	4.5	10.0	7.5	8.5	10.5	9.5	10.0
29	---	---	---	6.5	3.0	4.5	8.5	7.5	8.0	12.5	10.5	11.5
30	---	---	---	5.5	4.0	5.0	10.5	7.0	9.0	12.5	11.0	11.5
31	---	---	---	5.5	5.0	5.0	---	---	---	13.0	11.5	12.0
MONTH	2.5	0.0	0.5	7.0	0.0	3.5	13.0	3.5	7.0	13.0	8.0	10.5

01124750 BROWNS BROOK NEAR WEBSTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	11.0	12.0	16.0	15.0	15.5	17.5	16.0	16.5	20.5	17.0	18.5
2	12.5	11.0	12.0	16.0	15.0	15.5	17.0	16.5	17.0	20.5	17.5	19.0
3	12.5	10.5	11.5	16.0	15.0	15.5	18.0	16.5	17.0	21.0	17.5	19.0
4	12.0	11.0	11.5	16.0	15.5	15.5	18.5	16.5	17.5	21.5	18.0	19.5
5	13.0	11.5	12.0	16.0	15.0	15.5	18.5	16.0	17.0	19.5	18.0	18.5
6	13.0	11.5	12.5	16.0	14.5	15.0	18.0	15.5	17.0	18.5	17.5	18.0
7	13.5	12.5	13.0	16.0	14.5	15.0	19.0	16.0	17.0	17.5	16.0	16.5
8	14.0	12.5	13.5	16.5	15.0	15.5	19.0	17.0	17.5	15.5	14.0	15.0
9	15.0	13.0	14.0	16.5	15.0	16.0	19.0	16.5	18.0	15.0	13.5	14.5
10	14.5	13.0	14.0	17.0	15.5	16.0	20.0	17.0	18.5	15.0	12.0	13.5
11	15.5	13.0	14.5	16.5	15.5	16.0	19.0	17.5	18.0	17.0	13.0	15.0
12	16.0	13.5	14.5	15.5	14.0	15.0	19.0	17.0	18.0	16.0	13.5	15.0
13	16.0	14.0	14.5	15.5	13.5	14.5	18.0	16.5	17.5	16.0	13.0	14.5
14	15.0	14.0	14.5	16.5	15.0	15.5	18.0	16.0	17.0	15.5	13.5	14.5
15	14.0	13.0	13.5	15.5	14.5	15.0	17.0	16.5	17.0	15.0	14.0	14.5
16	14.0	13.0	13.5	16.0	14.5	15.0	17.0	16.0	16.5	16.0	14.0	15.0
17	13.5	12.5	13.0	16.0	14.5	15.0	18.0	16.0	17.0	14.5	12.5	13.5
18	13.0	12.5	12.5	16.0	14.0	15.0	17.5	16.0	17.0	15.0	13.5	14.5
19	14.0	12.5	13.0	16.5	14.0	15.0	17.5	16.0	16.5	14.5	13.0	14.0
20	14.0	13.0	13.5	16.5	15.0	15.5	17.5	15.0	16.0	14.5	12.0	13.5
21	14.5	13.5	14.0	15.5	15.0	15.5	17.5	15.0	16.0	13.5	11.5	12.5
22	14.5	13.5	14.0	16.5	15.0	15.5	16.5	15.5	16.0	14.0	11.0	12.5
23	14.0	13.5	14.0	16.5	14.5	15.5	17.0	14.5	15.5	15.5	14.0	14.5
24	15.0	13.5	14.0	16.5	14.5	15.5	17.0	14.5	16.0	14.5	13.5	14.0
25	15.0	13.5	14.0	16.5	14.5	15.5	17.0	14.5	16.0	14.0	13.0	13.5
26	15.0	14.0	14.5	15.5	15.5	15.5	18.0	15.5	16.5	14.5	11.5	13.0
27	15.0	14.0	14.5	16.5	15.5	16.0	18.5	16.0	17.0	15.0	13.0	14.0
28	15.0	14.0	14.5	17.5	16.0	16.5	19.0	17.0	17.5	14.5	13.0	14.0
29	15.5	14.5	15.0	17.5	16.0	16.5	19.5	16.5	18.0	14.5	12.0	13.5
30	16.0	15.0	15.5	17.5	15.5	16.5	21.0	17.5	19.0	14.0	12.0	12.5
31	---	---	---	17.5	15.5	16.5	20.5	17.5	19.0	---	---	---
MONTH	16.0	10.5	13.5	17.5	13.5	15.5	21.0	14.5	17.0	21.5	11.0	15.0
YEAR	21.5	0.0	9.0									

01141900 CONNECTICUT RIVER AT WILDER, VT.

LOCATION.--Lat 43°40'04", long 72°18'13", Windsor County, at Wilder Dam at Wilder.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year(discontinued).

REMARKS.--Additional chemical analyses for this station in pesticide table and in table of composited samples. Discharge record furnished by New England Power Company.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	1030	3900	.20	--	.37	.02	118	7.1	16.4
NOV.									
07...	1000	8000	.10	--	.45	.02	112	7.2	7.0
DEC.									
06...	0815	4000	.20	--	.30	.01	106	7.2	1.0
JAN.									
16...	1245	8900	.30	--	.28	.01	105	7.2	.0
FEB.									
14...	0800	5800	.40	--	.30	.01	--	--	.2
MAR.									
07...	0930	5500	.50	--	.18	.01	99	7.1	.5
APR.									
10...	1245	10200	.30	--	.20	.01	93	7.1	3.5
MAY									
15...	1200	8800	.20	--	.22	.01	80	7.2	11.0
JUNE									
14...	1330	9500	.19	.00	.47	.02	132	7.2	13.5

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.								
02...	3	7.1	11	1.0	290	4	--	.02
NOV.								
07...	3	9.7	13	.5	190	3	--	.03
DEC.								
06...	3	11.9	12	2.1	190	15	--	.02
JAN.								
16...	2	12.6	14	.0	300	17	28	.02
FEB.								
14...	3	13.4	15	.0	70	14	16	.03
MAR.								
07...	3	12.4	14	.7	170	7	17	.00
APR.								
10...	1	12.2	11	.0	28	12	32	.03
MAY								
15...	2	10.1	7	2.3	180	14	11	.06
JUNE								
14...	3	--	13	.0	900	110	--	.04

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.

LOCATION.--Lat 42°52'20", long 72°12'51", Cheshire County, two-parameter monitor at gaging station on right bank 15 ft (4.6 m) downstream from bridge, at Webb, 2.5 mi (4.0 km) south of Marlborough.

DRAINAGE AREA.--36.0 mi² (93.2 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year.
Water temperatures: October 1954 to current year.

EXTREMES.--Current year:
Specific conductance (August 1972 to September 1973): Maximum, 170 micromhos Sept. 9, 1972; minimum, 36 micromhos Dec. 8, 12, 1972.
Water temperatures: Maximum, not determined; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 33.5°C July 14, 1965; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites. Temperature recorder inoperative Jan. 27 to Sept. 30.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), AUGUST 1972 TO SEPTEMBER 1972

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	87	78	82
2	---	---	---	103	82	93
3	---	---	---	102	98	99
4	---	---	---	103	66	88
5	---	---	---	106	80	98
6	---	---	---	109	100	104
7	85	80	81	120	106	110
8	80	59	64	162	122	142
9	68	60	63	170	163	168
10	73	64	68	166	146	157
11	81	69	74	155	147	152
12	82	79	80	148	141	146
13	84	80	81	140	130	138
14	83	66	77	132	121	127
15	80	67	77	142	132	139
16	96	80	88	130	117	122
17	98	91	94	115	103	108
18	95	91	92	113	111	112
19	102	92	96	113	107	110
20	106	98	101	107	106	107
21	103	99	101	120	105	110
22	103	98	101	126	121	124
23	109	99	103	132	126	129
24	116	106	110	139	132	135
25	129	111	117	140	135	136
26	148	126	132	135	129	131
27	148	122	143	129	125	127
28	116	74	92	128	125	126
29	88	77	83	133	127	128
30	79	73	76	141	133	137
31	81	76	78	---	---	---
MONTH	148	59	91	170	66	123
PERIOD	170	59	108			

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	146	138	142	96	95	95	50	44	47	77	43	54
2	152	146	149	100	95	97	50	49	49	44	37	40
3	153	151	152	99	89	94	50	49	49	46	37	40
4	152	142	146	89	86	87	52	49	51	55	38	46
5	142	135	137	91	86	89	53	50	51	52	47	48
6	140	137	138	90	83	86	60	48	52	51	47	49
7	147	117	136	89	85	86	47	37	39	53	50	52
8	115	74	84	107	87	96	37	36	37	54	51	53
9	94	75	86	108	60	75	49	37	43	57	52	53
10	93	86	91	60	57	58	44	38	40	56	53	54
11	85	82	84	59	57	58	40	38	38	54	53	54
12	91	83	86	61	58	59	44	36	39	55	54	55
13	89	86	88	67	61	63	69	42	47	57	55	56
14	95	84	87	75	64	68	49	43	45	59	55	56
15	97	95	96	77	63	70	46	42	43	60	59	60
16	100	98	99	75	62	68	45	42	43	64	59	61
17	98	94	97	74	63	70	44	41	43	72	60	65
18	95	94	95	70	70	70	44	43	44	71	62	67
19	102	96	99	72	70	71	44	42	43	74	59	66
20	105	102	104	96	60	71	47	41	43	68	44	60
21	110	105	107	59	56	57	45	42	43	---	---	---
22	118	107	111	60	57	58	55	44	45	---	---	---
23	124	115	120	59	59	59	65	45	53	55	45	47
24	121	115	118	61	59	60	46	45	46	47	46	46
25	122	114	118	65	60	63	46	46	46	50	47	48
26	115	113	114	73	46	58	48	46	47	49	49	49
27	114	113	114	45	44	45	51	48	49	---	---	---
28	121	115	118	47	44	45	59	50	53	---	---	---
29	122	116	120	52	45	46	52	51	51	---	---	---
30	115	105	110	50	44	45	58	50	53	---	---	---
31	105	96	100	---	---	---	85	51	65	---	---	---
MONTH	153	74	111	108	44	69	85	36	46	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	84	72	76	45	40	41	55	51	52
2	---	---	---	84	72	78	49	40	42	65	53	55
3	---	---	---	83	73	77	47	41	43	64	55	58
4	---	---	---	99	74	84	40	39	39	57	53	55
5	---	---	---	81	62	69	54	39	43	54	52	53
6	---	---	---	65	61	63	57	54	55	53	52	52
7	---	---	---	72	61	63	55	54	55	56	50	52
8	---	---	---	66	48	57	57	54	56	60	56	58
9	---	---	---	51	45	46	---	---	---	61	56	59
10	---	---	---	46	44	45	---	---	---	61	51	55
11	---	---	---	48	46	47	---	---	---	53	47	51
12	---	---	---	49	46	47	---	---	---	47	46	47
13	---	---	---	48	44	45	---	---	---	48	47	47
14	62	56	58	44	44	44	---	---	---	50	47	48
15	72	58	63	54	44	46	---	---	---	59	50	53
16	68	58	62	48	45	46	---	---	---	60	52	55
17	62	59	61	44	44	44	---	---	---	62	50	52
18	59	59	59	43	43	43	---	---	---	54	49	51
19	59	58	59	43	43	43	---	---	---	50	46	48
20	73	58	62	54	43	45	---	---	---	47	46	46
21	86	61	75	59	45	48	---	---	---	46	38	41
22	87	72	79	57	47	50	---	---	---	43	38	39
23	88	72	78	54	49	50	58	54	57	46	38	40
24	78	66	71	51	49	50	60	54	57	47	41	43
25	66	64	65	54	44	48	60	58	59	48	44	45
26	86	64	67	49	43	46	64	58	62	48	46	46
27	82	66	74	52	49	51	62	51	55	48	47	47
28	81	72	76	51	49	50	54	48	50	48	48	48
29	---	---	---	50	40	44	48	46	47	48	46	47
30	---	---	---	47	40	41	51	45	47	56	47	49
31	---	---	---	44	40	40	---	---	---	52	49	50
MONTH	---	---	---	99	40	52	---	---	---	65	38	50

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	50	50	38	38	38	92	84	87	137	126	129
2	52	52	52	38	38	38	93	47	75	134	125	129
3	55	52	53	41	38	39	49	43	45	137	122	130
4	56	55	56	41	40	41	46	46	46	130	116	123
5	60	56	59	42	41	41	51	47	48	128	118	121
6	64	60	62	41	40	40	57	52	54	122	114	118
7	68	64	66	43	41	41	65	57	61	118	110	113
8	68	62	66	46	43	44	74	65	68	117	112	114
9	67	64	65	49	46	47	78	72	74	121	115	119
10	67	65	66	52	49	51	82	77	80	121	116	118
11	71	68	69	54	50	51	94	79	83	120	114	115
12	75	72	74	58	51	53	90	85	87	114	106	110
13	74	59	70	58	52	56	89	68	81	115	108	110
14	59	53	55	64	57	61	87	75	83	117	111	114
15	59	55	56	62	60	61	91	84	86	114	102	109
16	61	60	60	62	59	60	95	85	88	102	98	100
17	64	61	62	64	61	62	93	88	90	97	87	89
18	67	62	65	72	64	67	89	85	86	87	78	84
19	62	60	60	78	71	74	87	84	85	81	75	77
20	72	61	70	79	77	76	85	78	81	111	76	93
21	76	70	74	80	69	74	85	76	81	101	82	90
22	81	72	76	70	55	62	99	83	89	80	73	76
23	77	75	76	64	57	61	100	90	94	79	66	73
24	76	73	75	66	48	61	100	91	95	81	78	80
25	76	69	73	69	55	65	104	96	99	84	80	81
26	82	71	75	72	68	70	109	98	102	104	76	87
27	87	67	79	81	73	77	109	100	103	101	68	83
28	65	51	57	84	78	81	103	99	100	74	64	70
29	50	44	46	84	81	82	123	99	108	63	56	59
30	45	38	40	82	75	79	142	116	125	60	52	55
31	---	---	---	84	79	81	142	126	132	---	---	---
MONTH	87	38	64	84	38	59	142	43	84	137	52	99
YEAR	153	36	68									

TEMPERATURE (°C) OF WATER, OCTOBER 1972 TO JANUARY 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	9.5	11.0	6.0	4.5	5.0	1.0	0.0	0.5	0.0	0.0	0.0
2	12.0	7.5	9.5	6.5	5.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0
3	12.5	7.5	10.0	7.5	6.5	7.0	1.0	0.5	1.0	0.0	0.0	0.0
4	13.0	9.0	11.0	7.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0
5	13.5	9.0	11.0	5.0	4.5	4.5	0.0	0.0	0.0	0.5	0.0	0.5
6	13.5	10.0	11.5	5.0	4.5	4.5	1.5	0.0	0.5	0.0	0.0	0.0
7	13.0	12.5	13.0	5.5	3.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
8	13.5	11.5	12.5	5.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
9	11.5	9.5	10.5	5.5	5.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0
10	10.0	7.5	8.5	5.5	4.5	5.0	1.0	0.5	1.0	0.0	0.0	0.0
11	9.5	5.5	7.5	5.0	4.5	4.5	1.0	0.0	0.5	0.0	0.0	0.0
12	9.5	8.0	8.5	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
13	9.5	7.0	8.5	5.5	5.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0
14	9.0	5.5	7.5	5.5	2.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0
15	9.0	6.0	7.5	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
16	7.0	5.0	6.0	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	8.5	6.0	7.0	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
18	6.5	3.5	5.0	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19	6.0	4.5	5.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
20	5.0	1.5	3.0	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
21	5.0	0.5	2.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5.5	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	8.0	5.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	9.0	7.0	8.0	1.0	0.0	0.5	1.0	0.5	0.5	0.5	0.0	0.0
25	8.5	6.5	7.5	1.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0	0.0
26	8.0	6.0	6.5	2.5	1.5	2.0	1.0	0.5	1.0	0.0	0.0	0.0
27	7.5	4.0	6.0	2.0	1.5	2.0	1.0	0.0	0.5	---	---	---
28	8.5	5.0	6.5	2.5	1.5	2.0	1.0	0.0	0.5	---	---	---
29	9.0	8.0	8.5	2.0	1.0	2.0	0.0	0.0	0.0	---	---	---
30	8.0	5.5	6.5	1.0	0.0	0.5	0.0	0.0	0.0	---	---	---
31	6.0	4.0	5.0	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	13.5	0.5	8.0	7.5	0.0	3.0	1.5	0.0	0.5	0.5	0.0	0.0

01161200 CONNECTICUT RIVER AT NORTHFIELD, MASS.

LOCATION.--Lat 42°42'44", long 72°27'14", Franklin County, at bridge on State Highway 142, at Northfield, 1.1 mi (1.8 km) downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year.

REMARKS.--Additional chemical analyses for this station in pesticide table and in tables of composited samples and samples collected at miscellaneous sites. Discharge figures shown are the sum of those of daily mean discharge at gaging stations on Connecticut River at Vernon, Vt., 7 mi (11 km) upstream and Ashuelot River at Hinsdale, N.H.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 02...	1400	E2600	.20	--	.63	.00	147	7.3	15.8
NOV. 07...	1400	E8300	.20	--	.39	.04	118	7.3	7.0
DEC. 05...	1230	E11000	.20	--	.22	.02	108	7.2	.3
APR. 11...	1100	E26000	.30	--	.24	.02	98	7.2	3.8
MAY 15...	1700	E17000	.20	--	.37	.01	88	7.2	13.5
JUNE 14...	1530	E15000	.19	.00	.59	.02	134	7.3	14.5

E Estimated.

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 02...	6	9.3	12	7.1	16000	3700	--	.0
NOV. 07...	4	10.4	11	1.0	3600	120	--	.0
DEC. 05...	6	--	9	.6	1800	81	--	.0
APR. 11...	5	--	10	.0	650	48	36	.0
MAY 15...	3	10.2	5	1.1	620	270	4300	.0
JUNE 14...	4	--	12	1.0	11000	--	--	.0

01167800 BEAVER BROOK AT WILMINGTON, VT.

LOCATION.--Lat 42°51'38", long 72°51'04", Windham County, two-parameter monitor at gaging station on right bank 20 ft (6 m) downstream from bridge on State Highway 9, 1.0 mi (1.6 km) southeast of Wilmington, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--6.38 mi² (16.52 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year.
Water temperatures: August 1972 to current year.

EXTREMES.--August 1972 to September 1973:
Specific conductance: Maximum, 133 micromhos Sept. 12, 1972; minimum, 34 micromhos Aug. 2, 1973.
Water temperatures: Maximum, 25.5°C Aug. 10, 1973; minimum, freezing point on many days during winter period.

REMARKS.--Records of suspended-sediment loads for this station in table of instantaneous suspended sediment, and additional chemical analyses in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), AUGUST TO SEPTEMBER 1972

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	103	97	100	99	87	91
2	109	96	103	104	94	98
3	108	103	105	104	101	103
4	110	98	104	108	105	106
5	111	100	104	110	107	108
6	110	105	108	111	109	110
7	114	108	112	121	111	116
8	102	67	77	122	119	121
9	77	69	74	125	122	123
10	85	76	82	126	122	124
11	92	85	88	123	118	121
12	96	93	95	133	124	130
13	100	95	96	132	102	124
14	103	97	101	92	75	81
15	99	88	91	81	74	77
16	91	89	90	89	79	84
17	96	90	93	94	84	88
18	94	88	90	97	91	94
19	89	83	85	99	91	95
20	91	85	90	91	86	88
21	100	90	97	98	89	94
22	110	99	106	101	98	100
23	113	109	112	106	100	103
24	115	112	114	109	105	107
25	114	67	86	110	106	108
26	82	73	78	110	106	109
27	88	82	85	112	102	109
28	76	50	55	108	102	105
29	68	56	62	114	108	111
30	93	67	74	111	87	102
31	94	78	85	---	---	---
MONTH	115	50	92	133	74	104

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	88	85	87	74	72	73	45	43	44	67	47	54
2	92	88	90	75	57	65	45	44	44	47	45	46
3	98	93	96	59	55	57	49	45	46	48	46	47
4	102	99	101	58	56	57	46	45	45	52	48	49
5	103	100	102	63	56	60	46	44	45	52	50	51
6	105	100	103	64	59	62	49	41	46	53	52	52
7	105	53	77	65	63	64	41	36	38	57	54	56
8	63	57	60	64	44	55	---	---	---	59	57	58
9	68	64	66	47	44	46	46	35	42	57	56	57
10	71	68	69	50	47	49	44	41	42	57	56	57
11	74	70	72	63	49	50	42	41	42	58	57	57
12	75	74	75	51	50	50	43	42	42	58	57	58
13	74	70	71	52	51	52	54	42	46	60	58	59
14	76	72	74	51	47	48	46	43	44	60	59	59
15	76	70	73	51	49	50	44	43	43	72	59	61
16	72	70	71	63	51	54	44	42	43	79	59	64
17	73	71	72	54	53	54	45	44	45	71	61	65
18	74	72	73	55	53	54	45	44	44	64	59	61
19	76	74	76	55	53	54	44	44	44	61	58	60
20	78	76	77	65	47	53	48	43	45	61	50	53
21	79	77	78	47	46	47	46	43	44	52	50	51
22	78	77	78	49	46	48	46	44	45	87	53	57
23	79	76	77	51	48	50	47	46	46	---	---	---
24	83	75	77	52	51	51	48	46	47	---	---	---
25	80	76	78	51	51	51	48	47	47	---	---	---
26	81	79	80	56	39	46	48	47	48	---	---	---
27	81	58	72	41	38	40	50	48	49	---	---	---
28	70	64	67	49	41	43	51	50	50	---	---	---
29	70	62	65	45	42	44	53	52	52	---	---	---
30	67	62	64	54	43	45	52	51	52	---	---	---
31	72	68	69	---	---	---	77	49	61	---	---	---
MONTH	105	53	77	75	38	52	77	35	46	---	---	---

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	71	64	66	44	42	44	---	---	---
2	---	---	---	72	66	68	---	---	---	---	---	---
3	---	---	---	70	64	67	---	---	---	---	---	---
4	---	---	---	81	68	74	---	---	---	---	---	---
5	---	---	---	69	67	68	---	---	---	---	---	---
6	---	---	---	68	66	68	---	---	---	---	---	---
7	---	---	---	70	66	67	---	---	---	---	---	---
8	---	---	---	68	58	63	---	---	---	---	---	---
9	51	49	50	56	53	54	---	---	---	---	---	---
10	52	50	51	55	53	54	---	---	---	---	---	---
11	54	51	52	55	54	54	---	---	---	---	---	---
12	54	52	53	54	45	50	---	---	---	---	---	---
13	53	52	52	45	43	44	---	---	---	---	---	---
14	56	52	54	46	44	45	---	---	---	---	---	---
15	53	51	52	49	46	47	---	---	---	---	---	---
16	53	53	53	46	44	46	---	---	---	---	---	---
17	55	53	54	---	---	---	---	---	---	---	---	---
18	54	54	54	---	---	---	---	---	---	---	---	---
19	55	54	55	43	42	43	---	---	---	---	---	---
20	63	55	57	46	43	45	---	---	---	---	---	---
21	67	57	59	47	46	46	---	---	---	---	---	---
22	69	58	62	49	47	48	---	---	---	---	---	---
23	62	60	61	51	48	49	---	---	---	---	---	---
24	61	60	61	51	48	50	---	---	---	48	47	48
25	64	61	62	50	47	48	---	---	---	48	47	48
26	81	61	64	50	45	47	---	---	---	49	48	48
27	64	62	63	44	43	44	---	---	---	51	49	50
28	65	63	64	46	44	45	---	---	---	51	48	50
29	---	---	---	46	44	45	---	---	---	48	46	47
30	---	---	---	47	46	46	---	---	---	52	48	50
31	---	---	---	46	45	46	---	---	---	51	47	49
MONTH	---	---	---	81	42	53	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	52	49	51	---	---	---	85	79	82	85	82	83
2	54	52	53	---	---	---	84	34	59	89	82	85
3	56	53	55	---	---	---	46	37	42	92	85	88
4	57	56	56	---	---	---	52	46	49	96	90	92
5	57	56	57	---	---	---	60	51	56	103	94	96
6	60	57	58	---	---	---	67	61	65	107	89	96
7	61	59	60	---	---	---	73	67	71	94	89	91
8	65	61	62	---	---	---	77	70	75	95	91	93
9	68	65	65	---	---	---	80	75	77	99	94	96
10	71	68	69	---	---	---	83	77	79	108	94	101
11	75	72	73	---	---	---	68	47	51	104	98	101
12	78	48	70	---	---	---	56	48	52	103	97	100
13	52	48	51	---	---	---	57	48	53	109	101	105
14	56	53	54	---	---	---	63	58	60	111	103	107
15	60	55	57	---	---	---	66	53	60	105	95	99
16	62	59	61	---	---	---	54	51	52	100	94	97
17	60	56	58	---	---	---	61	54	57	105	97	101
18	63	60	61	---	---	---	65	61	63	102	82	95
19	64	61	62	---	---	---	70	66	69	85	78	81
20	67	64	65	---	---	---	72	68	71	88	82	86
21	68	67	67	---	---	---	77	72	75	92	85	89
22	70	66	68	---	---	---	78	74	76	94	82	91
23	70	68	68	---	---	---	82	74	78	81	65	69
24	72	49	66	---	---	---	82	79	81	73	69	72
25	53	49	51	---	---	---	85	80	83	63	54	58
26	57	51	54	---	---	---	90	83	86	71	64	68
27	59	50	56	---	---	---	89	86	87	83	72	77
28	51	46	50	67	58	64	88	83	86	87	83	85
29	47	45	46	74	65	70	91	85	88	93	86	89
30	---	---	---	80	71	76	94	88	90	95	90	92
31	---	---	---	82	75	78	100	86	94	---	---	---
MONTH	78	45	59	---	---	---	100	34	70	111	54	89
YEAR	111	34	62									

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

TEMPERATURE (°C) OF WATER, AUGUST TO SEPTEMBER 1972

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	18.0	19.0	17.5	15.0	16.0
2	19.5	17.0	18.5	17.5	15.5	16.0
3	20.5	18.0	19.0	17.5	16.5	17.0
4	21.5	16.5	19.0	17.5	15.5	16.0
5	18.0	13.5	15.5	16.5	11.5	13.5
6	16.0	13.0	14.5	14.5	10.5	12.5
7	18.5	16.5	16.5	14.5	11.5	13.0
8	19.0	17.0	18.0	14.0	12.0	13.0
9	20.5	16.0	17.5	16.0	13.5	15.0
10	17.5	15.0	16.0	14.0	11.0	12.5
11	16.0	13.0	14.5	12.5	9.5	11.0
12	16.0	15.0	15.5	14.5	13.0	13.5
13	17.5	16.0	17.0	14.0	13.0	13.5
14	17.5	16.0	16.5	16.0	14.0	15.0
15	16.5	15.0	15.5	15.5	12.0	13.0
16	15.5	12.0	13.0	14.0	12.0	12.5
17	15.5	13.5	14.5	15.5	12.5	13.5
18	16.0	15.5	15.5	17.0	15.0	15.5
19	17.0	15.5	16.0	17.0	15.0	16.0
20	17.0	13.5	15.0	14.0	10.5	12.5
21	15.5	13.0	14.5	11.5	8.5	10.0
22	16.0	14.5	15.0	13.5	10.5	12.5
23	16.5	15.0	16.0	11.5	8.5	10.0
24	17.0	16.5	16.5	11.0	9.0	10.0
25	21.5	17.0	19.0	13.0	11.5	12.0
26	21.0	18.0	19.0	14.5	12.5	13.0
27	19.0	18.0	18.5	16.0	14.0	15.0
28	20.5	18.5	19.5	12.5	10.5	11.5
29	21.0	18.0	19.5	12.0	10.5	11.0
30	19.5	16.0	17.5	13.0	10.0	12.0
31	19.5	14.5	15.5	---	---	---
MONTH	21.5	12.0	16.5	17.5	8.5	13.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	7.5	9.5	5.0	4.0	4.5	0.0	0.0	0.0	1.0	0.0	0.5
2	9.0	6.0	7.5	7.0	4.5	5.5	0.0	0.0	0.0	0.5	0.0	0.0
3	9.5	6.5	7.5	7.5	6.5	7.0	1.0	0.0	0.5	0.0	0.0	0.0
4	9.5	7.5	8.5	6.0	3.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
5	10.0	7.5	8.5	4.5	3.5	4.0	0.0	0.0	0.0	0.5	0.0	0.0
6	11.0	9.5	10.0	5.0	3.5	4.5	0.5	0.0	0.5	0.0	0.0	0.0
7	12.5	11.0	12.0	5.5	3.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
8	12.0	10.0	11.0	5.5	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9.5	7.0	8.5	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
10	8.0	5.5	6.5	6.0	4.5	5.0	1.0	0.0	0.5	0.0	0.0	0.0
11	8.0	4.0	6.5	4.5	4.0	4.5	0.5	0.0	0.0	0.5	0.0	0.0
12	9.0	7.5	8.5	5.5	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
13	8.5	6.0	7.5	5.5	4.5	5.0	0.0	0.0	0.0	0.5	0.0	0.0
14	7.5	4.5	6.5	4.0	0.5	1.5	0.5	0.0	0.0	0.5	0.0	0.0
15	7.5	5.0	6.0	1.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0
16	5.5	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
17	7.0	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
18	5.5	3.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
19	5.5	2.5	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	4.0	0.5	2.0	1.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3.5	0.0	2.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
22	4.5	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	7.5	5.0	6.0	0.0	0.0	0.0	0.5	0.0	0.0	---	---	---
24	9.5	7.0	7.5	0.5	0.0	0.0	1.0	0.5	0.5	---	---	---
25	7.0	5.5	6.5	1.5	0.0	0.5	1.0	1.0	1.0	---	---	---
26	7.5	4.0	5.5	1.0	0.0	0.5	1.0	0.5	1.0	---	---	---
27	7.0	3.0	5.0	1.0	0.5	1.0	1.0	0.0	0.5	---	---	---
28	8.0	5.0	6.5	1.5	1.0	1.5	1.0	0.0	0.5	---	---	---
29	9.5	6.0	8.0	1.5	0.5	1.0	0.0	0.0	0.0	---	---	---
30	6.0	3.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	---	---	---
31	4.5	2.0	3.5	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	12.5	0.0	6.5	7.5	0.0	2.0	1.0	0.0	0.0	---	---	---

01167800 BEAVER BROOK AT WILMINGTON, VT.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	0.5	0.0	0.5	4.5	3.5	4.0	---	---	---
2	---	---	---	1.0	0.5	0.5	---	---	---	---	---	---
3	---	---	---	1.0	0.0	0.5	---	---	---	---	---	---
4	---	---	---	0.5	0.0	0.5	---	---	---	---	---	---
5	---	---	---	1.5	0.0	0.5	---	---	---	---	---	---
6	---	---	---	1.5	0.5	1.0	---	---	---	---	---	---
7	---	---	---	2.0	0.5	1.0	---	---	---	---	---	---
8	---	---	---	1.0	0.5	0.5	---	---	---	---	---	---
9	0.5	0.0	0.0	2.0	0.0	1.0	---	---	---	--	---	---
10	0.0	0.0	0.0	2.5	0.5	1.0	---	---	---	---	---	---
11	0.5	0.0	0.0	1.5	0.5	1.0	---	---	---	---	---	---
12	0.5	0.0	0.0	2.0	1.0	1.5	---	---	---	---	---	---
13	0.5	0.0	0.0	3.0	1.0	2.0	---	---	---	---	---	---
14	0.5	0.0	0.0	2.0	0.5	1.5	---	---	---	---	---	---
15	0.0	0.0	0.0	2.0	1.5	1.5	---	---	---	---	---	---
16	0.0	0.0	0.0	3.0	1.5	2.0	---	---	---	---	---	---
17	0.0	0.0	0.0	2.0	0.5	1.5	---	---	---	---	---	---
18	0.0	0.0	0.0	1.0	0.5	0.5	---	---	---	---	---	---
19	0.0	0.0	0.0	1.0	0.0	0.5	---	---	---	---	---	---
20	0.0	0.0	0.0	1.5	0.0	0.5	---	---	---	---	---	---
21	0.0	0.0	0.0	1.5	0.0	0.0	---	---	---	---	---	---
22	0.0	0.0	0.0	1.5	0.0	0.5	---	---	---	---	---	---
23	0.0	0.0	0.0	3.5	0.0	1.0	---	---	---	---	---	---
24	0.0	0.0	0.0	4.5	0.0	1.5	---	---	---	15.0	13.0	14.0
25	0.0	0.0	0.0	5.0	0.5	2.5	---	---	---	13.0	11.0	12.0
26	0.0	0.0	0.0	3.0	2.0	2.5	---	---	---	12.5	10.0	11.0
27	0.5	0.0	0.0	4.5	1.0	2.5	---	---	---	15.0	10.0	12.0
28	0.5	0.0	0.0	4.5	0.0	2.0	---	---	---	12.0	11.0	11.5
29	---	---	---	3.5	1.0	2.5	---	---	---	15.0	11.5	13.0
30	---	---	---	4.0	1.0	2.5	---	---	---	17.0	12.5	15.0
31	---	---	---	5.5	2.5	3.5	---	---	---	17.0	14.5	15.5
MONTH	---	---	---	5.5	0.0	1.5	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.0	15.0	---	---	---	23.5	18.0	20.0	23.0	17.5	20.0
2	17.0	13.0	15.0	---	---	---	20.0	18.5	19.5	23.0	18.0	20.5
3	18.0	11.0	14.0	---	---	---	22.0	18.5	20.0	24.0	18.0	21.0
4	16.5	13.0	15.0	---	---	---	22.5	18.5	20.5	24.5	18.5	21.0
5	18.0	14.5	16.5	---	---	---	22.5	17.5	20.0	23.5	18.0	20.5
6	19.5	16.0	17.5	---	---	---	22.5	16.5	19.5	20.0	17.0	19.0
7	20.5	17.5	18.5	---	---	---	23.5	17.5	20.0	17.5	14.0	16.0
8	21.0	15.5	18.5	---	---	---	23.5	18.0	20.5	15.0	12.0	14.0
9	21.0	16.0	18.5	---	---	---	24.5	18.0	21.0	16.0	11.5	13.5
10	22.0	16.0	19.0	---	---	---	25.5	19.5	22.0	16.0	9.0	12.0
11	24.0	16.5	20.0	---	---	---	22.0	21.0	21.5	16.0	10.5	13.0
12	22.5	18.5	20.0	---	---	---	22.5	18.5	20.5	16.0	11.0	13.0
13	20.0	17.5	18.5	---	---	---	21.0	18.0	19.5	16.0	9.5	12.0
14	19.0	16.0	17.5	---	---	---	21.0	17.0	19.0	12.5	10.5	11.5
15	16.0	14.5	15.5	---	---	---	19.5	18.0	18.5	13.0	11.5	12.0
16	17.5	14.0	16.0	19.5	17.5	19.0	20.0	17.5	18.5	13.5	10.5	11.5
17	18.0	14.0	16.0	18.0	15.0	17.0	21.0	17.0	19.0	14.0	8.5	11.0
18	15.0	13.0	14.0	19.5	14.5	17.0	21.0	17.0	18.5	13.0	10.5	11.5
19	18.0	14.0	16.0	20.5	15.0	17.5	20.5	16.5	18.0	14.0	9.0	11.0
20	18.5	15.0	16.0	20.0	16.5	18.5	21.0	15.5	18.0	13.5	8.5	10.5
21	---	---	---	18.5	17.5	18.0	21.0	15.5	17.5	12.0	6.5	9.0
22	---	---	---	21.5	16.0	18.0	19.5	16.0	17.0	9.5	5.5	7.5
23	---	---	---	22.0	15.5	18.5	19.5	13.0	16.0	13.5	9.0	11.5
24	---	---	---	22.5	14.5	18.0	20.5	15.0	17.0	13.0	11.0	12.0
25	---	---	---	21.0	15.0	17.5	20.5	14.0	17.0	12.0	10.5	11.0
26	---	---	---	20.0	17.0	18.0	21.0	15.5	17.5	13.0	9.0	11.0
27	---	---	---	21.5	17.5	18.5	22.0	16.5	18.5	14.5	9.5	11.5
28	---	---	---	24.5	18.0	20.5	22.5	18.0	20.0	15.0	11.0	13.0
29	---	---	---	22.5	18.5	20.5	23.0	16.0	19.5	14.0	9.0	11.0
30	---	---	---	22.5	16.5	19.0	24.0	17.5	20.5	12.5	7.5	10.0
31	---	---	---	23.5	17.0	20.0	24.5	17.5	20.5	---	---	---
MONTH	---	---	---	---	---	---	25.5	13.0	19.0	24.5	5.5	13.5
YEAR	25.5	0.0	7.5									

01173260 MOOSE BROOK NEAR BARRE, MASS.

LOCATION.--Lat 42°23'52", long 72°08'51", Worcester County, two-parameter monitor at gaging station on right bank 20 ft (6 m) upstream from culvert on Hardwick Road and 2.7 mi (4.3 km) southwest of Barre.

DRAINAGE AREA.--4.54 mi^2 (11.76 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1971 to current year.
Water temperatures: November 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 95 micromhos Nov. 23; minimum, 34 micromhos June 30.
Water temperatures: Maximum, 26.5°C Sept. 3, 4; minimum, freezing point on most days during winter period.

Period of record:
Specific conductance: Maximum, 98 micromhos Feb. 5, 1972; minimum, 34 micromhos June 30, 1973.
Water temperatures: Maximum, 27.0°C July 19, 1972; minimum, freezing point on most days during winter periods.

REMARKS.--Additional chemical analyses in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	57	55	56	71	69	70	59	57	58	60	52	57
2	56	53	55	74	71	72	58	54	56	63	54	57
3	55	54	54	73	71	72	65	54	58	54	52	53
4	56	54	55	75	73	74	63	59	62	53	52	52
5	55	54	54	77	75	76	63	60	63	54	53	54
6	55	53	54	76	74	75	63	48	54	55	54	55
7	61	54	56	77	73	76	53	50	52	60	56	58
8	63	55	59	79	77	78	51	50	50	62	60	61
9	63	62	62	80	74	76	57	50	54	63	62	63
10	69	63	66	83	80	81	57	56	56	63	62	63
11	70	68	69	84	81	83	---	---	---	64	63	63
12	71	68	69	82	81	82	---	---	---	64	63	64
13	71	67	69	81	79	80	---	---	---	65	64	65
14	68	66	67	81	68	76	---	---	---	66	65	65
15	68	66	67	74	66	70	---	---	---	65	63	64
16	68	65	67	77	75	76	---	---	---	63	62	63
17	68	65	67	78	76	77	---	---	---	63	61	62
18	69	67	68	77	75	76	---	---	---	63	61	62
19	69	67	69	76	75	76	---	---	---	65	59	63
20	70	67	68	75	59	65	60	60	60	59	56	57
21	69	67	68	69	65	68	60	60	60	60	55	58
22	69	68	68	70	68	69	61	58	60	59	53	57
23	69	67	68	95	64	68	69	58	64	52	49	50
24	67	66	67	66	64	65	68	64	66	50	47	49
25	67	66	67	65	60	63	64	62	63	48	47	47
26	67	66	67	64	57	61	62	61	62	49	48	48
27	67	66	67	63	60	61	62	60	61	50	48	50
28	67	65	66	61	58	60	62	60	61	52	50	51
29	72	67	70	59	57	58	61	60	61	52	52	52
30	69	67	68	60	56	59	61	61	61	54	52	53
31	69	69	69	---	---	---	61	59	60	54	54	54
MONTH	72	53	64	95	56	71	---	---	---	66	47	57

01173260 MOOSE BROOK NEAR BARRE, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	55	54	55	64	62	63	57	54	56	50	49	49
2	56	51	55	62	60	61	53	50	51	50	49	49
3	59	47	53	64	61	63	50	47	49	50	48	49
4	50	46	48	67	60	63	49	46	48	49	48	48
5	46	44	45	64	55	59	48	45	47	49	48	48
6	47	44	46	55	53	54	50	48	49	48	47	48
7	49	47	48	53	52	53	50	48	49	49	47	48
8	50	49	50	52	44	48	49	48	49	49	47	48
9	53	51	52	46	44	45	50	48	49	48	46	47
10	55	49	53	44	43	43	50	47	49	50	46	49
11	56	55	56	44	44	44	50	48	49	49	47	48
12	58	56	57	46	44	45	49	47	48	49	46	48
13	58	57	58	47	46	46	50	48	49	47	45	46
14	59	57	58	47	46	46	49	48	49	48	46	47
15	58	57	58	49	47	48	50	49	49	47	46	47
16	58	57	58	50	49	50	51	49	50	48	45	47
17	59	58	58	51	48	50	51	49	51	49	47	48
18	59	59	59	52	49	51	53	51	53	47	45	46
19	60	59	59	50	49	50	54	52	53	47	46	47
20	59	58	58	50	48	49	55	52	54	47	45	46
21	59	58	58	51	50	50	53	50	52	45	42	44
22	62	59	61	51	50	51	51	49	50	44	42	43
23	64	62	63	53	51	52	50	49	49	45	41	44
24	63	63	63	54	53	54	49	48	49	48	44	46
25	63	62	63	55	54	55	49	48	49	45	44	45
26	62	61	62	56	55	55	49	46	48	44	44	44
27	62	61	62	59	57	58	50	46	48	45	43	44
28	63	62	63	57	56	57	48	46	47	45	43	44
29	---	---	---	56	55	56	48	47	47	48	43	46
30	---	---	---	55	55	55	49	48	49	45	44	44
31	---	---	---	56	55	55	---	---	---	45	43	44
MONTH	64	44	56	67	43	53	57	45	50	50	41	46

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	46	43	45	39	36	38	48	46	47	58	55	57
2	45	44	45	38	36	37	48	45	47	55	53	54
3	44	43	43	39	35	36	50	46	49	55	53	54
4	46	42	43	36	35	35	47	45	46	56	53	55
5	44	42	43	39	36	38	46	45	45	55	54	54
6	48	42	43	41	39	40	46	44	45	55	54	54
7	45	44	44	41	39	40	46	44	45	57	55	56
8	47	43	45	42	39	41	46	45	45	56	54	55
9	46	45	45	43	40	41	47	45	46	54	53	54
10	46	44	45	43	41	42	48	46	47	54	53	53
11	46	44	45	43	41	42	47	46	47	54	53	53
12	46	45	45	42	41	42	48	47	47	54	53	53
13	45	44	44	43	41	42	49	47	48	55	53	54
14	47	44	46	45	43	44	50	48	49	54	53	53
15	46	45	45	44	44	44	52	50	51	57	52	54
16	45	43	44	45	43	44	53	52	52	58	55	56
17	44	43	44	44	42	43	52	51	52	55	54	55
18	43	43	43	45	43	44	52	50	51	58	53	55
19	44	43	44	46	43	44	52	51	52	60	54	57
20	45	43	44	46	44	45	53	51	52	64	60	62
21	46	45	46	50	45	46	54	52	53	65	64	65
22	46	45	46	52	48	50	53	52	53	65	63	64
23	45	44	45	48	47	47	54	52	53	64	62	63
24	45	44	44	49	46	47	54	52	53	62	60	61
25	45	43	44	49	46	47	53	52	52	60	59	60
26	45	44	45	47	47	47	53	51	52	59	58	59
27	46	44	45	49	46	47	54	52	53	60	58	59
28	45	42	44	52	47	51	54	53	54	60	59	60
29	47	43	46	50	47	48	54	52	53	60	58	59
30	43	34	38	47	46	46	55	52	53	61	59	60
31	---	---	---	47	45	46	58	53	55	---	---	---
MONTH	48	34	44	52	35	43	58	44	50	65	52	57
YEAR	95	34	54									

01173260 MOOSE BROOK NEAR BARRE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	11.0	12.5	6.5	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
2	13.5	8.5	11.0	7.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0
3	14.0	8.5	11.0	9.0	7.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0
4	14.5	9.5	12.0	8.0	5.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
5	14.0	9.5	11.5	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
6	14.5	11.0	12.5	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
7	14.0	13.5	13.5	5.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
8	15.0	12.5	13.5	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
9	12.5	9.5	11.0	5.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
10	10.5	7.5	9.0	5.5	4.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0
11	10.0	5.5	7.5	5.0	4.0	4.5	---	---	---	0.0	0.0	0.0
12	9.5	7.5	9.0	5.5	4.5	5.0	---	---	---	0.0	0.0	0.0
13	11.0	7.5	9.0	6.0	5.0	5.5	---	---	---	0.0	0.0	0.0
14	9.5	6.0	8.0	5.5	2.0	4.0	---	---	---	0.0	0.0	0.0
15	9.5	6.5	8.0	2.0	0.5	1.5	---	---	---	0.0	0.0	0.0
16	7.0	5.5	6.5	1.0	0.0	0.5	---	---	---	0.0	0.0	0.0
17	9.5	6.5	7.5	0.5	0.0	0.0	---	---	---	0.0	0.0	0.0
18	7.5	4.5	6.0	1.5	0.0	0.5	---	---	---	0.0	0.0	0.0
19	6.0	4.5	5.5	1.0	0.0	0.5	---	---	---	0.0	0.0	0.0
20	6.0	3.0	4.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
21	5.5	2.0	4.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
22	5.5	4.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	9.0	5.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	10.5	7.5	9.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	9.0	7.0	8.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
26	9.5	6.5	7.5	2.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
27	8.5	5.0	6.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
28	9.0	5.5	7.5	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
29	9.5	9.0	9.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
30	9.0	6.0	7.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	6.5	4.5	5.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	15.0	2.0	8.5	9.0	0.0	3.0	---	---	---	0.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	5.5	13.0	8.0	10.5
2	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.5	5.0	15.0	11.0	13.0
3	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.0	4.5	15.5	12.5	14.5
4	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0	3.5	14.0	12.0	13.0
5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.5	3.0	12.0	10.0	10.5
6	0.5	0.0	0.0	0.0	0.0	0.0	5.5	2.5	4.0	10.5	8.0	9.5
7	0.5	0.0	0.0	0.0	0.0	0.0	8.5	3.0	5.5	13.5	7.5	11.0
8	0.5	0.0	0.0	0.5	0.0	0.0	6.5	4.5	5.5	12.5	9.5	11.5
9	0.5	0.0	0.0	0.5	0.0	0.0	7.0	2.5	5.0	11.5	10.0	10.0
10	0.5	0.0	0.0	0.5	0.0	0.0	5.5	3.5	4.0	15.0	10.0	12.5
11	0.5	0.0	0.0	0.0	0.0	0.0	4.5	2.0	3.0	14.0	12.0	13.0
12	0.5	0.0	0.0	2.5	0.0	1.5	5.5	1.0	3.5	14.0	11.0	12.5
13	0.5	0.0	0.0	5.0	1.0	2.5	6.5	2.0	4.0	13.0	10.0	11.5
14	0.5	0.0	0.5	3.5	1.0	2.5	7.0	2.0	4.5	14.0	9.5	11.5
15	0.5	0.0	0.5	3.5	2.5	3.0	8.5	3.5	6.0	12.0	10.5	11.0
16	0.5	0.0	0.5	6.0	3.0	4.5	10.5	5.5	8.5	14.0	9.5	12.0
17	0.5	0.0	0.0	6.5	5.0	5.5	10.5	8.5	9.5	14.0	10.0	12.0
18	0.5	0.0	0.5	5.0	2.5	3.5	13.5	9.5	11.5	12.0	9.0	10.5
19	0.5	0.0	0.5	4.5	1.0	3.0	14.5	11.0	13.0	12.0	8.5	10.5
20	0.5	0.0	0.5	3.0	2.0	2.5	13.5	10.0	12.0	11.5	9.0	10.5
21	0.5	0.0	0.5	2.5	1.0	1.5	12.5	9.0	11.0	10.5	9.5	10.0
22	0.5	0.0	0.0	1.0	0.0	0.5	16.0	10.5	13.5	12.0	9.0	10.5
23	0.5	0.0	0.0	3.5	0.0	1.5	17.0	14.0	15.5	13.5	9.0	11.5
24	0.0	0.0	0.0	5.5	0.5	3.0	14.5	12.5	13.5	15.0	11.5	13.0
25	0.0	0.0	0.0	6.0	2.5	4.5	14.0	10.5	12.5	13.0	11.0	12.0
26	0.0	0.0	0.0	5.5	4.5	4.5	13.0	8.0	10.0	11.0	10.0	10.5
27	0.0	0.0	0.0	6.5	3.0	5.0	7.5	6.5	7.0	13.0	9.5	11.0
28	0.0	0.0	0.0	6.5	2.5	4.5	9.0	6.5	7.5	12.0	10.5	11.0
29	---	---	---	6.0	2.5	4.5	8.0	7.0	7.5	16.0	12.0	14.0
30	---	---	---	5.0	3.5	4.5	11.5	5.5	9.0	18.5	13.0	15.5
31	---	---	---	5.5	5.0	5.5	---	---	---	17.5	15.0	16.0
MONTH	0.0	0.0	0.0	6.5	0.0	2.0	17.0	1.0	7.5	18.5	7.5	12.0

01173260 MOOSE BROOK NEAR BARRE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	14.0	16.0	20.5	18.5	19.5	23.0	20.0	21.0	25.0	19.5	22.0
2	18.5	14.5	16.5	22.0	19.5	20.5	21.0	20.0	20.5	25.5	20.0	22.5
3	17.5	12.5	15.5	23.0	20.0	21.5	21.5	19.5	20.5	26.5	20.5	23.5
4	17.0	13.5	15.5	22.0	21.0	21.5	22.5	20.5	21.5	26.5	21.0	23.5
5	19.0	16.0	17.5	22.0	20.5	21.0	22.0	20.0	21.0	22.5	21.5	22.0
6	19.5	15.5	17.5	22.0	19.0	20.5	22.0	19.0	20.5	22.0	19.0	21.0
7	21.0	18.0	19.5	22.0	19.0	21.0	23.0	19.5	21.0	21.5	17.0	19.0
8	22.0	17.5	20.0	23.5	20.5	22.5	23.5	20.0	21.5	19.0	15.5	17.0
9	22.5	18.0	20.5	24.5	22.0	23.5	24.5	21.0	22.5	19.0	14.5	16.5
10	22.5	18.0	20.5	25.0	22.0	23.5	25.0	21.5	23.0	18.5	12.5	15.0
11	24.0	19.5	22.0	24.0	21.0	22.5	24.0	22.0	23.0	19.5	13.5	16.5
12	24.5	21.5	23.0	21.5	18.0	20.0	24.5	21.0	22.5	18.0	14.0	16.0
13	22.0	19.0	20.5	21.0	16.5	18.5	24.5	20.0	21.5	18.0	12.5	15.0
14	21.5	17.5	19.5	23.5	18.5	21.0	23.0	18.5	20.5	15.0	13.5	14.0
15	19.5	16.5	18.0	20.0	18.0	19.5	20.0	18.5	19.5	16.5	13.0	14.5
16	18.5	16.0	17.5	22.0	16.5	19.5	21.0	18.5	19.5	16.5	13.0	14.5
17	19.5	16.0	18.0	21.5	17.0	19.0	22.5	17.5	19.5	17.0	11.5	14.0
18	18.0	15.5	16.0	21.5	16.5	19.0	22.5	18.5	20.5	14.5	13.0	13.5
19	18.5	15.5	17.0	22.5	16.0	19.0	22.5	18.5	20.0	15.0	12.0	13.0
20	20.0	17.0	19.0	22.0	17.0	19.5	22.0	17.0	19.0	14.5	11.0	12.5
21	22.5	20.0	21.0	19.5	18.0	19.0	22.0	16.5	18.5	14.0	9.5	12.0
22	22.5	19.5	21.0	20.5	17.0	18.5	20.5	17.0	18.0	11.5	8.5	10.0
23	21.0	19.0	20.0	21.0	18.0	19.5	21.5	15.0	18.0	16.5	11.5	14.0
24	22.0	19.0	20.5	22.5	17.0	19.5	22.5	16.0	18.5	13.5	12.0	12.5
25	22.5	18.5	20.5	22.5	17.0	19.5	22.0	15.5	18.5	15.0	11.0	12.5
26	23.0	19.5	21.0	19.0	18.5	19.0	23.0	16.5	19.5	15.0	9.5	12.0
27	21.0	19.5	20.5	20.0	18.5	19.0	24.0	17.5	20.5	16.0	10.5	13.0
28	21.5	19.5	20.5	21.5	18.5	20.0	23.5	20.0	21.5	16.0	12.5	14.0
29	21.5	20.5	21.0	22.0	20.5	21.0	25.0	18.0	21.5	15.5	10.0	12.5
30	20.5	19.5	19.5	22.0	19.0	20.5	26.0	19.0	22.0	14.5	10.0	12.0
31	---	---	---	22.0	19.0	20.5	26.0	19.5	21.5	---	---	---
MONTH	24.5	12.5	19.0	25.0	16.0	20.5	26.0	15.0	20.5	26.5	8.5	15.5
YEAR	26.5	0.0	9.5									

01174000 HOP BROOK NEAR NEW SALEM, MASS.

LOCATION.--Lat 42°28'42", long 72°20'05", Franklin County, two-parameter monitor at gaging station on right bank 1.5 mi (2.4 km) upstream from mouth and 1.5 mi (2.4 km) south of New Salem.

DRAINAGE AREA.--3.39 mi² (8.78 km²).

PERIOD OF RECORD.--Chemical analyses: December 1971 to current year.
Water temperatures: December 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 191 micromhos Feb. 3; minimum, 39 micromhos Jan. 23.
Water temperatures: Maximum, 21.5°C Aug. 9, 10, 30, 31, Sept. 3, 4; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 195 micromhos Aug. 16, 1972; minimum, 39 micromhos Jan. 23, 1973.
Water temperatures: Maximum, 22.0°C July 19, 1972; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	94	93	93	81	71	75	76	62	67
2	---	---	---	94	84	86	81	76	78	75	69	72
3	---	---	---	116	82	93	77	73	75	104	72	77
4	114	110	112	95	90	93	78	73	76	84	70	76
5	112	108	111	92	87	89	83	73	76	81	75	77
6	112	88	107	89	86	88	82	54	70	75	73	74
7	102	87	98	89	87	89	69	54	63	77	73	75
8	---	---	---	88	75	84	72	68	70	79	74	76
9	---	---	---	95	74	82	80	66	70	77	74	76
10	104	101	103	91	86	88	66	63	64	74	72	73
11	102	99	100	94	88	91	68	66	67	73	71	72
12	133	100	112	88	86	87	177	68	78	72	70	71
13	103	99	101	89	85	88	101	66	79	72	70	71
14	100	93	99	90	74	82	79	73	74	72	68	70
15	98	95	97	92	81	87	72	66	70	69	67	68
16	95	93	94	95	92	94	71	65	67	69	67	68
17	94	92	93	99	94	96	68	66	66	70	66	68
18	91	89	90	145	91	96	68	65	66	70	66	68
19	---	---	---	---	---	---	69	67	68	69	62	66
20	90	89	90	75	58	69	78	67	70	62	53	57
21	90	89	90	97	73	81	78	72	75	66	58	63
22	91	90	90	85	80	82	101	71	86	65	51	63
23	91	90	91	89	84	86	84	78	79	49	39	44
24	93	91	92	88	85	86	77	75	76	55	49	53
25	95	93	93	87	83	85	76	73	74	58	55	57
26	94	92	93	87	49	63	74	72	73	59	57	58
27	93	92	92	78	58	67	75	72	73	58	57	58
28	93	91	93	75	71	73	76	72	74	58	55	57
29	94	87	90	76	74	75	80	74	76	63	54	58
30	96	91	93	76	73	75	75	73	75	61	59	60
31	96	94	95	---	---	---	109	72	86	60	58	59
MONTH	133	87	97	145	49	84	177	54	73	104	39	66

01174000 HOP BROOK NEAR NEW SALEM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	60	59	60	73	69	71	63	49	60	67	59	62
2	164	56	67	75	71	73	49	44	46	68	62	64
3	191	81	104	75	73	74	54	50	52	66	57	63
4	83	71	75	76	69	72	56	52	55	65	52	62
5	79	72	76	71	67	68	60	46	55	65	55	61
6	80	65	71	70	68	69	58	55	56	68	54	62
7	67	64	66	70	68	69	63	55	58	70	48	64
8	64	60	63	68	53	58	59	57	58	64	55	62
9	66	59	62	62	56	59	61	57	59	65	54	59
10	67	63	65	64	60	62	60	45	51	62	56	59
11	68	63	65	63	62	63	55	47	51	60	53	56
12	68	63	65	62	52	57	59	54	56	61	56	58
13	64	61	63	54	51	52	76	48	58	61	57	59
14	64	61	63	55	52	54	59	54	56	62	58	60
15	69	61	64	55	53	54	61	54	57	61	59	60
16	67	64	65	54	53	53	62	55	58	69	57	60
17	66	64	65	52	46	50	61	58	59	65	53	60
18	67	64	65	54	48	52	63	58	61	61	51	59
19	65	62	64	57	55	56	65	61	62	61	51	59
20	68	63	64	59	57	58	67	61	62	59	52	58
21	73	65	67	60	58	59	67	61	63	55	40	46
22	75	69	72	60	59	59	69	62	64	53	48	50
23	75	72	73	62	58	60	67	63	65	65	50	54
24	73	70	71	62	59	60	68	63	65	57	53	55
25	74	69	70	63	59	60	67	63	65	56	54	55
26	77	69	71	60	55	57	98	47	65	57	54	55
27	75	69	72	63	56	60	58	54	57	64	55	57
28	75	70	72	64	59	61	57	53	55	58	54	56
29	---	---	---	65	60	62	60	56	57	57	50	54
30	---	---	---	64	60	62	66	58	61	60	53	56
31	---	---	---	63	62	62	---	---	---	74	50	58
MONTH	191	56	69	76	46	61	98	44	58	74	40	58

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	66	49	57	51	43	47	80	73	76	89	78	82
2	59	56	58	55	50	52	77	46	65	81	77	79
3	61	56	59	57	55	56	63	58	60	82	78	80
4	61	57	59	57	48	55	67	61	63	84	80	82
5	61	58	59	51	48	50	69	63	65	85	78	81
6	63	58	60	54	50	51	71	64	67	84	75	81
7	62	51	59	57	53	55	73	66	69	75	72	74
8	60	55	58	61	55	57	74	68	71	82	75	79
9	61	57	59	62	57	59	75	70	73	81	79	80
10	62	53	60	63	58	60	76	72	74	83	79	81
11	65	53	61	64	60	61	77	72	75	84	80	82
12	65	59	61	63	59	61	75	71	74	83	80	81
13	61	58	60	64	59	61	76	74	75	83	79	81
14	61	58	59	66	60	63	78	74	76	81	78	80
15	63	59	61	64	61	62	78	66	74	85	76	81
16	64	59	61	65	61	63	70	65	67	76	73	75
17	63	57	59	67	61	63	75	69	72	78	76	77
18	61	57	59	67	61	63	76	71	74	80	65	77
19	65	58	61	71	62	65	77	73	75	82	79	81
20	66	59	62	70	63	66	79	74	77	85	83	84
21	67	61	63	69	63	66	79	73	76	87	85	86
22	66	62	64	70	64	67	80	75	77	87	84	85
23	76	65	68	71	65	67	79	75	77	89	82	86
24	68	63	65	73	65	68	78	75	77	86	82	83
25	70	63	65	73	65	69	77	76	76	84	82	83
26	70	63	66	74	67	69	78	76	77	83	80	82
27	68	57	64	71	65	67	79	77	78	84	82	83
28	63	56	60	73	68	70	81	79	80	85	84	85
29	61	41	52	74	69	72	81	78	79	87	84	85
30	47	40	44	75	70	73	84	78	82	88	86	87
31	---	---	---	78	73	75	85	79	82	---	---	---
MONTH	76	40	60	78	43	62	85	46	74	89	65	81
YEAR	191	39	70									

01174000 HOP BROOK NEAR NEW SALEM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1.0	0.0	0.0	2.0	0.5	1.0
2	---	---	---	---	---	---	1.5	0.5	1.0	1.5	0.0	1.0
3	---	---	---	---	---	---	3.5	1.0	2.5	0.5	0.0	0.0
4	---	---	---	---	---	---	2.0	0.0	0.5	1.0	0.0	0.0
5	---	---	---	4.5	3.0	4.0	1.0	0.0	0.0	1.5	0.0	1.0
6	---	---	---	5.5	3.0	5.0	2.0	0.0	1.0	0.0	0.0	0.0
7	---	---	---	5.0	2.5	4.0	1.5	0.0	0.5	0.0	0.0	0.0
8	---	---	---	6.0	4.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0
9	---	---	---	6.0	5.0	5.5	2.5	0.5	2.0	0.0	0.0	0.0
10	---	---	---	6.5	4.5	5.0	2.5	2.0	2.5	0.0	0.0	0.0
11	---	---	---	4.5	4.0	4.5	2.5	0.0	1.5	0.0	0.0	0.0
12	---	---	---	6.5	4.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0
13	8.5	7.5	8.0	6.5	6.0	6.5	2.5	0.5	1.5	0.0	0.0	0.0
14	7.0	4.0	5.5	6.0	1.0	3.5	2.0	0.5	1.5	0.0	0.0	0.0
15	8.0	5.5	7.0	2.5	0.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0
16	8.5	4.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	5.5	4.5	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	5.0	2.0	3.5	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
19	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.5	2.0	3.0	3.5	0.0	2.0	0.5	0.0	0.5	0.0	0.0	0.0
21	---	---	---	2.5	1.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
22	6.0	3.0	4.5	0.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
23	9.0	6.0	7.5	0.0	0.0	0.0	2.0	1.0	1.5	0.5	0.0	0.0
24	10.5	8.5	9.5	1.5	0.0	0.5	2.5	1.5	2.0	1.0	0.0	0.5
25	---	---	---	2.5	1.5	2.0	2.5	2.0	2.0	0.5	0.0	0.0
26	---	---	---	4.5	2.0	3.0	2.5	1.5	2.0	1.5	0.0	0.5
27	---	---	---	4.0	3.0	3.5	2.0	1.0	1.5	1.5	0.0	0.5
28	8.5	4.0	6.0	4.5	3.0	4.0	1.5	0.5	1.0	1.0	0.0	0.5
29	9.5	8.5	9.0	4.0	1.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
30	8.5	4.5	6.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
31	---	---	---	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
MONTH	---	---	---	6.5	0.0	2.5	3.5	0.0	1.0	2.0	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	5.5	12.5	5.0	8.5
2	0.0	0.0	0.0	1.0	0.0	0.5	5.0	4.0	4.5	13.5	8.5	11.0
3	0.0	0.0	0.0	1.0	0.5	1.0	4.5	3.0	4.0	14.5	10.0	12.0
4	0.5	0.0	0.0	0.5	0.0	0.0	5.0	0.5	3.5	11.0	8.5	10.0
5	1.5	0.0	1.0	2.5	0.5	1.0	5.0	0.5	3.0	9.0	6.5	8.0
6	1.0	0.0	0.0	2.0	1.0	1.5	7.0	2.5	4.5	9.5	5.5	7.5
7	1.5	0.0	0.5	1.5	1.0	1.5	8.0	2.5	5.0	12.5	5.0	8.5
8	2.0	1.0	1.5	1.5	0.0	1.0	5.0	3.0	4.5	10.5	6.0	8.5
9	1.0	0.0	0.0	3.0	0.5	1.5	7.0	1.5	4.0	8.5	7.5	8.0
10	0.0	0.0	0.0	3.0	1.0	2.0	4.0	3.0	3.5	12.5	8.0	10.0
11	0.0	0.0	0.0	2.0	1.0	1.5	4.5	1.5	3.0	11.0	9.5	10.0
12	0.0	0.0	0.0	4.5	2.0	3.0	5.0	0.5	2.5	12.0	7.5	9.5
13	0.0	0.0	0.0	5.5	2.0	3.5	6.0	0.5	3.0	11.0	6.5	8.5
14	0.0	0.0	0.0	4.0	1.5	3.0	7.0	0.5	3.5	11.0	6.0	8.5
15	0.0	0.0	0.0	3.5	2.5	3.0	9.0	1.5	5.0	8.5	7.0	8.0
16	0.0	0.0	0.0	5.5	2.5	4.0	10.5	2.5	6.5	12.5	7.0	9.0
17	0.0	0.0	0.0	5.0	4.0	4.5	9.5	6.0	7.5	11.5	7.0	9.0
18	0.0	0.0	0.0	4.0	1.5	2.5	12.0	6.5	9.0	9.0	6.5	8.0
19	0.0	0.0	0.0	4.0	0.5	2.5	12.0	7.0	10.0	9.5	6.0	7.5
20	0.0	0.0	0.0	2.5	1.5	2.0	12.0	6.5	9.0	9.0	6.5	8.0
21	0.0	0.0	0.0	3.5	0.0	1.5	11.5	6.0	8.5	9.0	8.0	8.5
22	0.0	0.0	0.0	2.0	1.0	1.5	15.0	7.5	11.0	10.0	7.5	8.5
23	1.0	0.0	0.5	5.0	0.0	2.0	15.5	10.5	12.5	11.5	6.5	9.0
24	0.5	0.0	0.0	6.0	0.5	3.0	12.5	8.5	10.5	12.5	9.0	10.5
25	0.0	0.0	0.0	7.0	1.5	4.0	12.5	7.0	10.0	10.5	9.0	9.5
26	0.5	0.0	0.0	4.5	4.0	4.0	10.0	6.5	8.5	9.0	8.0	8.5
27	0.0	0.0	0.0	7.0	2.5	4.5	6.5	5.5	6.0	11.5	7.5	9.0
28	0.0	0.0	0.0	6.5	1.0	3.5	9.5	5.5	7.0	10.0	8.5	9.0
29	---	---	---	5.5	1.0	3.5	7.0	5.5	6.0	14.0	10.0	12.0
30	---	---	---	5.5	3.0	4.0	11.0	3.5	7.5	15.0	10.5	12.5
31	---	---	---	6.0	4.5	5.0	---	---	---	14.0	12.0	13.0
MONTH	2.0	0.0	0.0	7.0	0.0	2.5	15.5	0.5	6.5	15.0	5.0	9.5

01174000 HOP BROOK NEAR NEW SALEM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	10.0	12.0	18.5	16.0	17.0	19.0	17.5	18.5	20.5	17.5	19.0
2	13.5	10.5	12.0	19.5	16.0	17.5	18.5	17.5	18.5	21.0	18.5	20.0
3	13.5	8.0	10.5	19.0	16.0	17.5	19.5	17.0	18.0	21.5	18.5	20.0
4	13.0	10.0	11.5	18.0	17.0	17.0	20.0	17.5	18.5	21.5	19.0	20.5
5	14.0	11.5	12.5	18.0	16.5	17.0	19.5	16.0	18.0	20.0	19.5	19.5
6	15.0	11.5	13.0	18.5	15.0	16.5	19.0	15.0	17.0	19.5	18.0	19.0
7	15.0	13.5	14.0	19.0	14.5	16.5	20.0	16.5	18.0	18.0	15.0	16.5
8	16.5	12.5	14.5	20.5	16.0	18.0	20.5	17.5	19.0	15.0	13.0	14.0
9	17.0	12.5	14.5	20.5	17.0	19.0	21.5	18.0	20.0	14.5	12.5	13.5
10	17.0	13.0	15.0	20.0	17.0	18.5	21.5	19.5	20.5	13.5	10.5	12.0
11	19.0	13.5	16.0	19.0	17.0	18.0	21.0	20.0	20.5	14.5	10.5	12.5
12	18.0	15.5	16.5	17.0	14.0	15.0	20.5	18.0	19.5	14.5	12.5	13.5
13	15.5	14.5	15.0	16.5	12.0	14.5	19.5	17.5	18.5	13.5	11.0	12.5
14	16.0	13.0	14.5	19.0	15.5	17.0	18.5	15.5	17.5	13.0	11.5	12.0
15	14.5	11.5	13.5	17.5	15.0	16.0	19.0	17.0	17.5	13.5	12.0	13.0
16	15.0	12.0	13.5	17.0	13.0	15.0	18.0	16.5	17.0	13.5	11.5	12.5
17	14.5	11.5	13.0	17.5	14.0	16.0	19.0	16.0	17.5	12.5	10.0	11.5
18	12.5	11.0	12.0	17.0	13.5	15.5	19.0	16.5	18.0	13.5	11.0	12.0
19	15.0	12.0	13.5	17.5	13.0	15.5	19.0	17.0	18.0	13.0	10.5	11.5
20	16.5	13.0	14.5	18.0	15.5	17.0	18.0	15.0	16.5	12.5	9.0	11.0
21	17.5	14.5	16.0	17.5	16.0	16.5	17.5	14.5	16.0	12.0	8.5	10.0
22	17.0	15.5	16.5	18.5	15.0	16.5	17.5	15.5	16.5	10.0	6.5	8.0
23	17.0	14.5	15.5	17.5	14.5	16.0	16.5	13.5	15.0	14.0	10.5	12.5
24	17.5	15.5	16.5	17.5	13.0	15.5	17.0	14.0	15.5	13.5	11.5	12.5
25	18.0	15.5	16.5	17.5	14.0	16.0	17.0	13.5	15.5	12.0	10.0	11.0
26	18.5	16.0	17.0	16.5	15.5	16.0	18.0	15.0	16.5	12.0	8.5	10.5
27	18.0	16.5	17.0	17.5	16.0	16.5	19.5	16.5	18.0	13.5	10.0	11.5
28	17.0	16.0	16.5	19.5	16.5	18.0	20.5	18.0	19.0	13.5	12.5	13.0
29	18.0	16.5	17.0	19.5	18.0	18.5	20.0	17.0	18.5	12.5	9.0	11.0
30	17.5	16.5	17.0	19.0	15.5	17.5	21.5	18.5	20.0	11.5	8.5	10.0
31	---	---	---	19.5	16.5	18.0	21.5	19.0	20.0	---	---	---
MONTH	19.0	8.0	14.5	20.5	12.0	16.5	21.5	13.5	18.0	21.5	6.5	13.5
YEAR	21.5	0.0	7.5									

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.

LOCATION.--Lat 42°09'37", long 72°34'52", Hampden County, multiple-parameter monitor on right bank on stone pier at Chicopee Falls dam, 300 ft (90 m) upstream from bridge on State Highway 33, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--711 mi² (1,841 km²).

PERIOD OF RECORD.--Chemical analyses: February to September 1973.
Water temperatures: February to September 1973.

REMARKS.--Recorder not operating March to July.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), FEBRUARY, AUGUST, AND SEPTEMBER 1973

	FEBRUARY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---
2	373	131	252	---	---	---	---	---	---
3	148	85	111	---	---	---	---	---	---
4	90	81	85	---	---	---	---	---	---
5	98	83	89	---	---	---	---	---	---
6	95	83	88	---	---	---	---	---	---
7	92	84	88	142	100	122	---	---	---
8	104	82	90	144	100	118	---	---	---
9	103	86	91	---	---	---	---	---	---
10	96	88	91	---	---	---	---	---	---
11	101	90	95	---	---	---	167	141	150
12	110	93	99	---	---	---	161	138	150
13	107	95	101	---	---	---	157	146	149
14	102	98	103	---	---	---	164	137	148
15	171	102	129	130	115	120	156	134	143
16	122	109	113	143	111	130	138	123	133
17	125	111	118	150	105	131	255	135	188
18	120	114	126	165	109	134	249	127	155
19	126	112	120	149	124	129	260	133	201
20	154	117	126	152	123	132	267	140	236
21	134	117	124	144	123	134	280	250	264
22	142	123	132	143	129	136	285	258	268
23	131	118	123	147	131	137	270	130	211
24	123	115	119	155	136	143	256	131	165
25	---	---	---	144	130	136	266	129	208
26	---	---	---	147	130	137	258	137	205
27	---	---	---	140	129	134	285	134	206
28	---	---	---	159	132	141	246	137	148
29	---	---	---	155	130	141	246	137	148
30	---	---	---	151	134	142	299	252	269
31	---	---	---	---	---	---	288	138	237
MONTH	373	81	114	---	---	---	---	---	---
PERIOD	373	81	145						

PH (UNITS), FEBRUARY AND SEPTEMBER 1973

	FEBRUARY			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---
2	7.0	6.7	6.9	---	---	---
3	6.9	6.6	6.7	---	---	---
4	7.1	6.4	6.6	---	---	---
5	7.1	6.7	6.8	---	---	---
6	7.3	6.7	6.9	---	---	---
7	7.4	6.8	6.9	---	---	---
8	7.0	6.6	6.9	---	---	---
9	7.2	6.8	6.9	---	---	---
10	7.0	6.6	6.8	---	---	---
11	7.0	6.8	6.8	6.5	5.9	6.2
12	7.2	6.8	6.9	6.5	5.8	6.2
13	7.1	6.8	6.9	6.8	6.5	6.6
14	7.1	6.7	6.9	7.0	6.4	6.7
15	7.0	6.6	6.8	6.9	6.4	6.7
16	6.9	6.6	6.7	8.1	6.6	6.9
17	7.3	6.5	6.8	7.0	6.3	6.6
18	6.7	6.2	6.5	6.8	6.0	6.4
19	6.7	6.2	6.4	6.9	6.1	6.5
20	6.9	6.4	6.6	6.8	6.3	6.6
21	6.6	6.3	6.5	7.0	6.5	6.8
22	6.6	6.5	6.7	6.8	6.7	6.7
23	7.0	6.6	6.7	6.9	6.5	6.7
24	6.8	6.6	6.7	6.7	5.9	6.3
25	---	---	---	6.3	5.9	6.1
26	---	---	---	6.5	6.0	6.3
27	---	---	---	6.5	5.9	6.3
28	---	---	---	6.4	5.9	6.2
29	---	---	---	6.3	5.7	6.1
30	---	---	---	6.3	5.9	6.1
31	---	---	---	---	---	---
MONTH	7.4	6.2	6.8	---	---	---
PERIOD	8.1	5.7	6.6			

01177100 CHICOPEE RIVER AT CHICOPEE FALLS, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, FEBRUARY, AUGUST, AND SEPTEMBER 1973

	FEBRUARY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---
2	14.5	13.7	13.9	---	---	---	---	---	---
3	15.2	14.3	14.8	---	---	---	---	---	---
4	14.9	14.5	14.6	---	---	---	---	---	---
5	14.7	14.3	14.5	---	---	---	---	---	---
6	14.6	14.2	14.5	---	---	---	---	---	---
7	14.5	13.7	14.1	1.7	0.8	1.2	---	---	---
8	13.8	13.5	13.7	0.9	0.5	0.7	---	---	---
9	13.9	13.6	13.8	---	---	---	---	---	---
10	14.0	13.7	13.9	---	---	---	---	---	---
11	14.2	13.9	14.1	---	---	---	0.4	0.0	0.2
12	14.2	13.7	14.0	---	---	---	0.3	0.0	0.0
13	13.9	13.4	13.7	---	---	---	0.2	0.1	0.1
14	13.5	13.2	13.4	---	---	---	0.2	0.0	0.1
15	13.3	12.7	13.1	0.1	0.0	0.0	0.3	0.1	0.2
16	13.1	12.7	13.0	0.2	0.0	0.0	0.2	0.0	0.1
17	13.1	12.8	13.0	0.1	0.0	0.0	0.3	0.0	0.2
18	13.0	12.7	12.9	0.1	0.0	0.0	0.4	0.0	0.2
19	13.2	12.9	13.0	0.2	0.0	0.0	0.3	0.0	0.1
20	13.1	12.8	12.9	0.6	0.0	0.0	0.3	0.0	0.1
21	12.8	12.3	12.6	0.5	0.0	0.1	0.1	0.0	0.0
22	13.0	12.4	12.7	0.1	0.0	0.0	0.2	0.0	0.0
23	12.9	12.7	12.8	0.2	0.0	0.0	0.2	0.0	0.0
24	12.9	12.5	12.8	0.2	0.0	0.0	0.5	0.0	0.2
25	---	---	---	0.2	0.0	0.0	1.0	0.2	0.6
26	---	---	---	0.2	0.0	0.0	0.7	0.2	0.5
27	---	---	---	0.1	0.0	0.0	0.7	0.0	0.3
28	---	---	---	0.1	0.0	0.0	0.5	0.0	0.2
29	---	---	---	0.1	0.0	0.0	0.7	0.0	0.2
30	---	---	---	0.1	0.0	0.0	0.2	0.0	0.1
31	---	---	---	---	---	---	---	---	---
MONTH	15.2	12.3	13.6	---	---	---	---	---	---
PERIOD	15.2	0.0	5.2						

TEMPERATURE (°C) OF WATER, FEBRUARY, AUGUST, AND SEPTEMBER 1973

	FEBRUARY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	27.5	23.0	24.5	---	---	---
8	---	---	---	27.5	23.0	25.0	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	22.0	19.0	21.0
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	22.5	19.0	21.0
14	---	---	---	---	---	---	22.5	18.0	20.0
15	---	---	---	25.0	23.5	25.0	20.5	17.5	19.0
16	1.0	0.0	0.5	26.5	22.0	24.5	20.5	18.0	19.0
17	1.0	0.0	0.5	27.5	23.5	25.0	20.0	16.5	18.5
18	1.0	0.0	0.5	27.0	22.5	24.5	20.0	17.0	18.0
19	1.5	0.5	1.0	26.0	22.0	24.5	20.0	16.0	18.0
20	2.0	1.0	1.0	25.5	22.5	24.5	19.5	15.5	17.5
21	---	---	---	25.0	21.5	23.5	18.5	15.0	17.0
22	2.0	1.5	1.5	25.0	22.5	23.5	18.0	14.0	15.0
23	2.5	1.5	2.0	25.5	21.5	23.5	19.0	15.0	17.0
24	2.5	1.5	2.0	25.0	20.5	23.0	18.5	15.0	16.0
25	---	---	---	24.5	21.0	22.5	17.5	14.5	16.0
26	---	---	---	24.5	20.5	22.0	18.0	14.0	16.0
27	---	---	---	24.5	20.5	23.0	19.0	14.5	16.5
28	---	---	---	23.5	21.5	22.5	18.5	16.0	17.5
29	---	---	---	26.0	21.0	22.5	18.0	15.0	16.5
30	---	---	---	25.0	22.0	24.0	17.5	14.0	16.0
31	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---
PERIOD	27.5	0.0	17.0						

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.

LOCATION.--Lat 42°05'46", long 72°35'43", Hampden County, four-parameter monitor on right bank at powerplant intake 800 ft (250 m) downstream from Memorial Bridge, 1.1 mi (1.8 km) upstream from Westfield River, 1.5 mi (2.4 km) southeast of West Springfield, and 4.4 mi (7.1 km) downstream from Chicopee River.

DRAINAGE AREA.--9,623 mi² (24,924 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year.
Water temperatures: August 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 201 micromhos Mar. 25; minimum, 54 micromhos July 1.
pH: Maximum, 8.2 Oct. 24; minimum, 6.4 Aug. 6, Sept. 6.
Dissolved oxygen: Maximum, 16.3 mg/l Jan. 6; minimum, 2.7 mg/l Sept. 5.
Water temperatures: Maximum, 30.5°C Sept. 3; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum recorded, 201 micromhos Mar. 25, 1973; minimum, 54 micromhos July 1, 1973.
pH: Maximum, 8.2 Oct. 24, 1972; minimum, 6.3 Sept. 16, 17, 1972.
Dissolved oxygen: Maximum, 16.3 mg/l Jan. 6, 1973; minimum, 2.7 mg/l Sept. 5, 1973.
Water temperatures: Maximum, 30.5°C Sept. 3, 1973; minimum, freezing point on several days during winter period.

REMARKS.--Additional chemical samples for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	141	134	138	146	137	142	135	73	87	104	96	100
2	149	134	138	182	143	149	77	72	74	96	87	92
3	141	137	140	146	141	145	80	76	77	100	86	94
4	143	136	139	141	134	137	188	77	97	146	95	105
5	141	126	134	145	139	142	166	117	127	98	91	93
6	138	126	132	146	138	142	159	104	112	98	90	92
7	139	115	131	140	135	138	105	97	100	102	91	96
8	140	131	137	139	124	134	171	83	97	102	97	101
9	131	127	128	126	121	123	132	89	101	108	103	106
10	126	120	123	123	110	118	89	79	85	118	111	115
11	133	125	129	122	106	110	79	72	74	120	96	98
12	138	131	134	108	104	107	79	72	74	107	101	104
13	140	135	137	103	97	100	94	75	79	120	111	115
14	138	129	134	98	88	93	---	---	---	127	115	120
15	131	125	128	107	91	98	---	---	---	127	119	122
16	128	123	125	101	97	98	---	---	---	133	118	125
17	130	122	127	104	101	103	---	---	---	130	119	124
18	133	128	130	103	99	100	---	---	---	129	120	123
19	130	123	126	108	102	103	---	---	---	---	---	---
20	130	119	125	128	85	110	---	---	---	---	---	---
21	135	109	129	111	95	103	114	109	110	---	---	---
22	140	123	132	93	88	90	156	109	139	---	---	---
23	136	129	133	97	84	87	139	132	135	---	---	---
24	138	126	133	91	88	89	133	127	130	---	---	---
25	132	126	128	95	88	92	127	123	125	---	---	---
26	127	124	125	97	81	92	122	119	120	---	---	---
27	139	126	131	91	75	82	120	115	117	---	---	---
28	138	131	133	78	70	74	117	112	114	---	---	---
29	135	129	132	74	69	72	112	108	110	---	---	---
30	141	134	137	96	69	72	109	104	107	---	---	---
31	138	136	137	---	---	---	117	105	109	---	---	---
MONTH	149	109	132	182	69	108	---	---	---	---	---	---

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	133	123	128	---	---	---	97	88	92
2	---	---	---	134	128	131	---	---	---	104	96	100
3	---	---	---	127	122	125	81	73	76	109	95	100
4	---	---	---	154	123	134	84	67	74	99	93	96
5	---	---	---	131	122	126	85	64	75	105	88	97
6	---	---	---	120	113	117	80	68	74	105	100	103
7	---	---	---	116	112	114	76	63	70	106	97	101
8	---	---	---	121	112	116	81	65	73	104	92	100
9	---	---	---	116	103	109	94	74	82	109	95	103
10	---	---	---	108	98	102	100	83	91	107	95	104
11	---	---	---	98	93	96	99	82	89	115	87	97
12	---	---	---	109	95	99	95	74	87	98	79	91
13	---	---	---	103	92	97	106	94	99	93	79	87
14	---	---	---	96	88	90	105	101	103	90	76	83
15	---	---	---	94	85	90	117	104	111	104	78	90
16	---	---	---	89	84	86	131	112	121	94	86	92
17	---	---	---	90	84	86	127	115	119	94	78	88
18	---	---	---	83	74	79	120	109	113	104	76	86
19	---	---	---	80	75	77	126	106	109	93	80	89
20	---	---	---	81	75	77	104	94	99	103	87	92
21	---	---	---	82	79	80	96	90	94	91	82	86
22	---	---	---	84	79	81	90	86	89	84	70	75
23	127	118	121	192	82	128	94	82	87	78	68	71
24	124	118	120	199	187	193	85	76	81	73	64	67
25	125	118	121	201	197	199	84	78	80	76	63	70
26	175	124	140	---	---	---	86	76	80	79	68	75
27	155	124	130	---	---	---	91	78	83	---	---	---
28	126	123	124	---	---	---	92	86	89	---	---	---
29	---	---	---	---	---	---	90	82	86	---	---	---
30	---	---	---	---	---	---	89	82	85	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	201	74	110	131	63	90	115	63	90

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	113	54	72	152	148	150	---	---	---
2	---	---	---	79	58	67	155	142	148	---	---	---
3	---	---	---	75	56	65	149	119	138	---	---	---
4	---	---	---	80	56	67	129	119	126	---	---	---
5	---	---	---	79	55	66	129	127	128	---	---	---
6	---	---	---	81	55	66	136	123	127	---	---	---
7	---	---	---	79	58	69	128	124	127	151	145	148
8	121	80	97	82	58	71	132	125	128	152	140	144
9	127	79	103	91	56	72	126	119	122	150	142	146
10	145	74	97	106	62	79	127	123	125	146	138	142
11	137	72	105	102	64	87	134	126	130	---	---	---
12	135	76	100	110	72	91	138	132	135	---	---	---
13	128	78	100	123	91	105	139	132	136	---	---	---
14	132	80	98	137	101	115	140	132	136	---	---	---
15	129	78	105	---	---	---	139	133	136	---	---	---
16	141	74	105	---	---	---	144	137	141	---	---	---
17	164	76	119	---	---	---	153	142	146	---	---	---
18	156	69	110	132	123	127	155	145	147	148	143	146
19	149	76	113	127	122	124	159	148	151	151	146	148
20	139	87	114	132	125	128	158	149	154	156	151	152
21	138	93	113	134	127	130	159	152	156	158	152	153
22	120	82	94	135	132	133	158	150	154	154	149	152
23	121	81	99	141	131	136	158	152	155	163	147	151
24	115	72	91	147	137	142	159	148	154	153	144	148
25	115	64	91	148	139	143	156	148	152	149	141	145
26	115	78	92	143	136	140	164	151	154	149	143	146
27	121	84	100	142	134	139	164	152	157	151	141	145
28	117	86	99	144	136	139	163	158	161	154	144	149
29	131	89	106	142	136	140	168	161	165	158	148	153
30	116	78	95	148	140	145	178	164	168	148	143	145
31	---	---	---	151	143	148	---	---	---	---	---	---
MONTH	---	---	---	151	54	107	178	119	144	---	---	---
YEAR	201	54	113									

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	6.6	6.9	7.0	6.7	6.9	7.8	7.4	7.6	7.3	7.2	7.2
2	7.0	6.8	6.9	7.7	6.9	7.3	7.5	6.9	7.3	7.3	7.2	7.2
3	7.1	6.7	7.0	7.9	7.1	7.5	7.8	7.4	7.6	7.5	7.3	7.4
4	7.0	6.8	6.9	7.2	6.5	6.9	7.5	7.0	7.2	7.7	7.3	7.4
5	6.9	6.5	6.8	7.2	6.5	6.9	---	---	---	7.3	7.2	7.3
6	---	---	---	7.4	7.1	7.2	---	---	---	7.3	7.2	7.3
7	---	---	---	7.4	7.3	7.4	---	---	---	7.4	7.0	7.2
8	---	---	---	7.5	7.3	7.4	---	---	---	---	---	---
9	---	---	---	7.5	7.3	7.4	---	---	---	---	---	---
10	---	---	---	7.6	7.3	7.4	---	---	---	---	---	---
11	---	---	---	7.8	7.4	7.6	---	---	---	7.0	6.8	6.9
12	---	---	---	8.0	7.7	7.9	---	---	---	7.0	6.9	6.9
13	---	---	---	7.9	7.7	7.8	---	---	---	7.3	7.0	7.0
14	---	---	---	7.6	7.4	7.5	---	---	---	7.1	6.8	7.0
15	---	---	---	7.5	7.4	7.5	---	---	---	6.9	6.7	6.8
16	---	---	---	7.4	7.3	7.3	---	---	---	6.9	6.8	6.9
17	---	---	---	7.7	7.1	7.3	---	---	---	7.0	6.9	6.9
18	---	---	---	7.8	7.5	7.7	---	---	---	7.1	7.0	7.0
19	---	---	---	7.6	7.3	7.5	---	---	---	---	---	---
20	7.9	7.1	7.7	7.6	7.4	7.5	---	---	---	---	---	---
21	7.7	7.4	7.6	7.5	7.0	7.3	7.3	6.9	7.0	---	---	---
22	7.8	7.5	7.6	7.3	6.9	7.1	7.3	6.9	7.1	---	---	---
23	8.0	7.7	7.8	7.4	7.1	7.2	7.2	7.1	7.2	---	---	---
24	8.2	7.9	8.1	7.5	7.4	7.4	7.2	7.2	7.2	---	---	---
25	7.9	7.4	7.6	7.7	7.4	7.5	7.2	7.1	7.1	---	---	---
26	7.7	7.3	7.5	8.1	7.6	7.9	7.2	7.0	7.2	---	---	---
27	7.5	7.0	7.3	7.9	7.5	7.7	7.1	7.1	7.1	---	---	---
28	7.9	7.3	7.6	7.7	7.6	7.7	7.2	7.2	7.2	---	---	---
29	7.9	7.7	7.9	7.7	7.1	7.4	7.2	7.1	7.1	---	---	---
30	7.7	6.9	7.3	7.5	7.1	7.3	7.2	7.1	7.2	---	---	---
31	7.3	6.8	7.0	---	---	---	7.2	6.9	7.2	---	---	---
MONTH	---	---	---	8.1	6.5	7.4	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.4	7.1	7.3	---	---	---	7.2	7.2	7.2
2	---	---	---	7.2	6.8	7.1	---	---	---	7.2	7.2	7.2
3	---	---	---	7.2	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
4	---	---	---	7.2	7.1	7.1	7.2	7.0	7.2	7.2	7.2	7.2
5	---	---	---	7.2	6.9	7.1	7.3	7.2	7.3	7.2	7.0	7.1
6	---	---	---	7.1	7.1	7.1	7.3	7.2	7.3	7.2	7.1	7.1
7	---	---	---	7.1	7.1	7.1	7.3	7.2	7.3	7.2	7.1	7.1
8	---	---	---	7.2	7.0	7.1	7.3	7.3	7.3	7.1	7.1	7.1
9	---	---	---	7.1	6.9	7.1	7.3	7.3	7.3	7.1	7.1	7.1
10	---	---	---	7.2	6.8	7.1	7.3	7.2	7.3	7.1	7.0	7.1
11	---	---	---	7.1	7.0	7.1	7.3	7.3	7.3	7.1	7.0	7.0
12	---	---	---	7.2	7.0	7.1	7.3	7.1	7.2	7.2	7.1	7.2
13	---	---	---	7.3	7.0	7.2	7.1	7.1	7.1	7.2	7.2	7.2
14	---	---	---	7.3	7.1	7.2	7.1	7.1	7.1	7.2	7.1	7.2
15	---	---	---	7.3	7.2	7.3	7.1	7.1	7.1	7.2	7.1	7.2
16	---	---	---	---	---	---	7.1	7.0	7.1	7.1	7.0	7.1
17	---	---	---	---	---	---	7.1	7.1	7.1	7.1	7.0	7.1
18	---	---	---	---	---	---	7.2	7.1	7.2	7.1	7.0	7.1
19	---	---	---	---	---	---	7.3	7.2	7.3	7.2	7.1	7.1
20	---	---	---	---	---	---	7.3	7.2	7.3	7.1	7.1	7.1
21	---	---	---	---	---	---	7.2	7.2	7.2	7.2	7.0	7.2
22	---	---	---	---	---	---	7.2	7.1	7.2	7.2	7.2	7.2
23	7.5	7.1	7.4	---	---	---	7.1	7.1	7.1	7.3	7.2	7.2
24	7.5	7.2	7.4	---	---	---	7.2	7.1	7.2	7.3	7.3	7.3
25	7.4	7.3	7.4	---	---	---	7.2	7.1	7.2	7.4	7.3	7.3
26	7.5	7.3	7.3	---	---	---	7.1	7.1	7.1	7.3	7.3	7.3
27	7.3	7.2	7.2	---	---	---	7.4	7.1	7.2	7.2	7.1	7.2
28	7.4	7.2	7.3	---	---	---	7.2	7.2	7.2	7.1	7.0	7.1
29	---	---	---	---	---	---	7.2	7.2	7.2	7.1	7.0	7.0
30	---	---	---	---	---	---	7.2	7.2	7.2	7.2	6.9	7.0
31	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
MONTH	---	---	---	---	---	---	7.4	7.0	7.2	7.4	6.9	7.1

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.9	6.9	7.1	6.9	7.0	6.9	6.8	6.9	7.1	6.8	6.9
2	---	---	---	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.8	6.9
3	---	---	---	7.1	7.1	7.1	7.0	6.8	6.9	6.9	6.7	6.7
4	---	---	---	7.1	7.1	7.1	6.9	6.7	6.8	6.9	6.6	6.7
5	---	---	---	7.1	7.1	7.1	6.7	6.7	6.7	6.9	6.8	6.8
6	---	---	---	7.2	7.0	7.1	6.7	6.4	6.6	6.8	6.4	6.7
7	---	---	---	7.2	7.0	7.1	6.8	6.6	6.7	6.7	6.6	6.7
8	7.0	6.9	6.9	7.0	7.0	7.0	6.8	6.6	6.7	6.7	6.6	6.6
9	7.0	6.9	6.9	7.1	7.0	7.0	6.6	6.5	6.6	6.8	6.6	6.7
10	6.9	6.7	6.8	7.0	7.0	7.0	6.7	6.6	6.6	6.7	6.5	6.6
11	6.8	6.7	6.8	7.0	6.8	6.9	6.7	6.6	6.7	---	---	---
12	6.9	6.7	6.8	7.2	6.8	6.9	6.7	6.6	6.6	---	---	---
13	6.9	6.8	6.8	7.0	6.9	6.9	6.8	6.6	6.7	---	---	---
14	7.0	6.6	6.9	7.0	6.9	6.9	7.1	6.7	6.9	---	---	---
15	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.6	6.7	---	---	---
16	7.1	7.0	7.1	7.0	6.9	6.9	6.8	6.6	6.7	---	---	---
17	7.1	7.0	7.0	6.9	6.9	6.9	6.9	6.7	6.8	---	---	---
18	7.1	7.0	7.1	7.0	6.9	7.0	6.9	6.7	6.8	7.1	7.0	7.0
19	7.2	7.1	7.1	7.0	6.9	6.9	6.9	6.7	6.8	7.6	7.0	7.2
20	7.1	7.0	7.1	7.0	6.9	6.9	7.1	6.7	6.9	7.4	7.1	7.2
21	7.0	6.9	6.9	6.9	6.8	6.9	7.0	6.8	6.9	7.6	7.1	7.3
22	6.9	6.7	6.8	6.9	6.8	6.8	7.0	6.8	6.9	7.3	7.1	7.2
23	6.8	6.8	6.8	7.0	6.8	6.9	7.0	6.9	6.9	7.1	7.0	7.1
24	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.8	6.9	7.1	7.0	7.1
25	7.0	6.9	6.9	7.1	6.7	6.9	6.8	6.7	6.8	7.2	7.0	7.1
26	7.0	6.9	6.9	6.9	6.7	6.7	6.8	6.6	6.7	7.1	7.1	7.1
27	6.9	6.8	6.8	6.8	6.6	6.7	6.8	6.6	6.7	7.1	7.0	7.1
28	6.9	6.8	6.9	6.8	6.7	6.8	7.1	6.7	6.9	7.1	6.8	7.0
29	7.0	6.9	6.9	6.8	6.6	6.7	7.3	7.1	7.2	7.1	7.0	7.1
30	7.1	6.8	6.9	6.8	6.6	6.7	7.5	6.9	7.3	7.1	6.9	7.0
31	---	---	---	6.9	6.8	6.9	6.9	6.7	6.8	---	---	---
MONTH	7.2	6.6	6.9	7.2	6.6	6.9	7.5	6.4	6.8	---	---	---
YEAR	8.2	6.4	7.1									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	5.1	5.7	---	---	---	12.7	12.1	12.4	13.6	13.0	13.3
2	7.2	6.3	6.8	---	---	---	12.7	12.4	12.6	13.8	13.5	13.7
3	8.0	6.3	7.2	---	---	---	12.8	12.3	12.5	14.5	13.9	14.2
4	7.2	4.8	6.3	---	---	---	12.4	11.7	12.2	14.5	13.9	14.2
5	7.2	6.1	6.7	---	---	---	12.7	11.9	12.5	14.2	13.5	13.8
6	7.3	5.5	6.5	---	---	---	12.7	11.3	12.4	16.3	14.0	14.4
7	7.1	6.3	6.8	---	---	---	13.2	12.7	12.9	14.9	11.7	13.4
8	7.8	6.6	7.2	---	---	---	14.9	13.1	14.0	12.1	10.0	10.9
9	---	---	---	---	---	---	15.3	14.3	15.0	14.1	9.5	11.4
10	---	---	---	11.5	10.6	11.2	14.6	13.7	14.2	14.2	13.4	13.7
11	---	---	---	11.8	11.3	11.6	14.3	13.6	13.8	13.7	13.3	13.5
12	---	---	---	11.7	11.5	11.6	14.2	13.8	14.1	14.0	13.7	13.8
13	7.8	7.3	7.6	11.3	10.9	11.1	14.7	13.7	14.3	14.3	13.5	14.2
14	8.1	7.8	8.0	11.3	10.5	11.0	14.6	14.0	14.3	14.4	13.9	14.1
15	8.5	8.0	8.2	11.7	11.0	11.4	15.1	14.1	14.5	14.2	13.5	13.8
16	8.4	8.1	8.3	11.7	11.4	11.6	15.2	13.2	14.1	13.9	13.3	13.6
17	8.8	8.2	8.4	11.6	11.2	11.4	---	---	---	14.0	13.2	13.6
18	8.9	8.8	8.8	11.8	11.5	11.7	---	---	---	13.6	13.0	13.4
19	9.0	8.5	8.7	11.8	11.4	11.6	---	---	---	---	---	---
20	9.0	8.9	9.0	13.4	10.8	11.2	---	---	---	---	---	---
21	9.1	8.9	9.0	12.2	10.9	11.7	13.6	12.9	13.1	---	---	---
22	9.0	8.2	8.8	12.9	12.1	12.5	13.2	12.6	13.0	---	---	---
23	8.3	7.4	7.9	13.5	12.6	13.2	13.7	13.2	13.5	---	---	---
24	7.5	6.8	7.2	13.8	13.3	13.5	13.8	13.3	13.5	---	---	---
25	7.6	7.1	7.3	13.2	12.7	13.0	13.7	13.1	13.4	---	---	---
26	7.5	6.8	7.3	12.7	11.0	11.6	13.4	12.2	13.0	---	---	---
27	7.5	6.9	7.1	12.0	11.4	11.6	12.6	12.2	12.4	---	---	---
28	7.2	6.0	7.0	12.7	12.0	12.4	12.8	12.6	12.7	---	---	---
29	6.7	5.7	6.3	12.6	12.2	12.3	13.6	13.1	13.4	---	---	---
30	7.5	6.0	6.7	12.6	12.2	12.4	13.9	13.4	13.6	---	---	---
31	---	---	---	---	---	---	14.1	13.1	13.7	---	---	---
MONTH	9.1	4.8	7.5	---	---	---	15.3	11.3	13.4	---	---	---

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.5	12.9	13.3	---	---	---	11.6	10.8	11.2
2	---	---	---	12.9	12.6	12.8	---	---	---	10.8	10.3	10.6
3	---	---	---	13.2	12.8	13.1	12.7	12.3	12.5	10.3	9.9	10.1
4	---	---	---	13.4	13.0	13.2	13.4	12.7	13.0	10.2	10.0	10.0
5	---	---	---	13.2	12.7	13.0	13.6	12.9	13.3	10.4	10.1	10.2
6	---	---	---	13.1	12.9	13.0	13.7	13.2	13.4	10.7	10.4	10.6
7	---	---	---	13.3	12.6	13.1	13.6	12.6	13.1	10.8	10.2	10.5
8	---	---	---	13.4	13.0	13.2	12.9	12.3	12.6	10.3	9.9	10.1
9	---	---	---	13.5	13.0	13.3	12.3	11.4	12.0	10.3	10.1	10.2
10	---	---	---	14.2	13.5	13.9	11.8	11.2	11.6	10.3	9.7	10.0
11	---	---	---	14.5	13.9	14.1	12.0	11.7	11.9	9.7	9.3	9.5
12	---	---	---	14.1	13.2	13.9	12.5	11.7	12.1	9.6	9.4	9.5
13	---	---	---	13.9	13.3	13.7	12.3	10.9	11.8	9.7	9.4	9.5
14	---	---	---	14.3	13.5	14.1	12.8	11.5	11.7	9.6	9.3	9.5
15	---	---	---	14.5	13.4	14.2	11.5	10.8	11.1	9.7	9.4	9.6
16	---	---	---	13.7	12.2	12.9	11.5	9.2	10.3	9.9	9.1	9.6
17	---	---	---	12.8	11.8	12.2	---	---	---	9.4	9.1	9.3
18	---	---	---	12.9	11.9	12.4	---	---	---	9.5	9.2	9.3
19	---	---	---	13.2	12.8	13.0	---	---	---	10.1	9.5	9.9
20	---	---	---	13.8	13.2	13.5	---	---	---	10.4	10.2	10.3
21	---	---	---	14.3	13.5	13.8	---	---	---	10.6	10.3	10.5
22	---	---	---	14.2	13.3	13.7	---	---	---	11.1	10.7	11.0
23	13.6	12.9	13.4	13.7	12.7	13.2	---	---	---	11.2	11.0	11.1
24	13.8	13.1	13.6	13.1	11.6	12.4	---	---	---	11.1	10.7	10.9
25	13.8	13.6	13.8	11.6	11.3	11.5	---	---	---	10.9	10.4	10.7
26	13.8	13.3	13.6	---	---	---	---	---	---	10.6	10.5	10.6
27	13.5	13.4	13.5	---	---	---	10.6	10.3	10.5	10.8	10.6	10.7
28	13.6	13.3	13.5	---	---	---	11.0	10.6	10.8	10.7	10.1	10.5
29	---	---	---	---	---	---	11.6	10.9	11.3	10.2	9.7	9.9
30	---	---	---	---	---	---	11.9	11.2	11.5	10.0	9.7	9.8
31	---	---	---	---	---	---	---	---	---	9.7	9.1	9.3
MONTH	---	---	---	14.5	11.3	13.2	---	---	---	11.6	9.1	10.1

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	9.2	9.2	6.8	6.3	6.6	4.9	4.7	4.8	3.8	3.4	3.6
2	---	---	---	7.2	6.9	7.1	4.8	4.4	4.7	3.6	3.1	3.4
3	---	---	---	7.3	7.2	7.3	5.0	4.8	4.9	3.4	2.8	3.1
4	---	---	---	7.2	7.0	7.1	5.1	4.9	5.0	3.1	2.8	3.0
5	---	---	---	7.1	7.0	7.1	5.0	4.7	4.8	3.0	2.7	2.9
6	---	---	---	7.3	7.1	7.2	4.9	4.7	4.8	4.0	2.8	3.3
7	---	---	---	7.2	6.9	7.1	4.8	4.6	4.7	4.2	4.0	4.1
8	7.9	7.8	7.8	7.0	6.6	6.9	4.8	4.6	4.7	4.5	4.2	4.4
9	8.0	7.6	7.8	6.7	6.4	6.5	4.7	4.6	4.6	4.7	4.5	4.6
10	7.9	7.5	7.7	6.5	6.2	6.4	4.7	4.5	4.6	4.9	4.5	4.8
11	7.6	6.9	7.3	6.4	6.2	6.3	4.6	4.5	4.6	---	---	---
12	7.1	6.8	7.0	6.8	6.4	6.6	4.7	4.5	4.6	---	---	---
13	7.4	6.9	7.1	7.0	6.7	6.8	4.8	4.6	4.7	---	---	---
14	7.6	7.3	7.5	6.8	6.4	6.6	5.0	4.8	4.9	---	---	---
15	7.7	7.6	7.6	6.5	6.4	6.5	5.3	4.9	5.1	---	---	---
16	7.8	7.6	7.7	6.8	6.4	6.6	5.4	5.3	5.4	---	---	---
17	7.8	7.5	7.6	6.5	6.3	6.4	5.5	5.3	5.4	---	---	---
18	8.0	7.6	7.8	6.3	6.2	6.3	5.5	5.3	5.4	---	---	---
19	8.0	7.1	7.8	6.3	5.9	6.1	5.6	5.4	5.5	---	---	---
20	9.2	6.8	7.6	6.4	6.2	6.3	5.9	5.7	5.8	---	---	---
21	8.0	7.6	7.8	6.8	6.5	6.7	6.1	5.7	5.9	---	---	---
22	7.8	7.3	7.6	7.2	6.9	7.0	5.9	5.8	5.8	---	---	---
23	7.6	7.3	7.5	7.4	7.0	7.2	5.9	5.6	5.7	---	---	---
24	7.4	7.1	7.2	7.5	7.0	7.3	5.6	5.5	5.5	---	---	---
25	7.1	6.7	6.9	7.4	7.2	7.4	5.5	5.2	5.4	---	---	---
26	6.8	6.5	6.7	7.5	7.2	7.4	5.4	4.9	5.2	---	---	---
27	6.6	6.4	6.5	7.3	7.2	7.2	5.1	4.8	5.0	---	---	---
28	6.4	6.3	6.3	6.9	6.7	6.8	4.8	4.7	4.8	7.1	3.0	5.3
29	6.1	6.0	6.1	6.5	6.3	6.4	4.7	4.4	4.6	7.9	6.6	7.5
30	6.2	6.0	6.1	6.1	5.6	5.9	4.3	3.7	4.1	8.3	7.2	7.8
31	---	---	---	5.4	5.2	5.3	3.8	3.5	3.7	---	---	---
MONTH	9.3	6.0	7.3	7.5	5.2	6.7	6.1	3.5	5.0	---	---	---
YEAR	16.3	2.7	9.5									

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	17.5	10.0	9.0	9.0	2.5	2.0	2.5	---	---	---
2	17.5	16.5	17.0	9.5	9.0	9.0	2.5	2.0	2.0	---	---	---
3	17.5	16.5	17.0	10.0	9.5	9.5	2.5	2.0	2.0	1.0	0.5	1.0
4	18.0	17.0	17.5	9.5	8.5	9.0	2.5	1.5	2.0	0.5	0.5	0.5
5	19.5	17.0	17.5	8.5	7.5	8.0	2.0	1.0	1.0	0.5	0.0	0.5
6	17.5	16.5	17.0	7.5	7.5	7.5	2.5	1.0	1.5	0.0	0.0	0.0
7	17.0	16.5	17.0	8.0	7.5	7.5	1.0	0.5	1.0	2.5	0.0	0.5
8	17.0	16.5	17.0	8.0	7.5	7.5	0.5	0.0	0.5	1.5	0.5	1.0
9	16.5	15.5	15.5	7.5	7.0	7.0	0.5	0.0	0.0	1.0	0.0	0.5
10	15.5	14.5	14.5	7.5	7.0	7.0	1.0	0.5	0.5	0.0	0.0	0.0
11	14.5	14.0	14.0	7.0	6.5	6.5	1.0	0.5	0.5	1.0	0.0	0.0
12	14.5	14.0	14.0	6.5	6.5	6.5	---	---	---	0.5	0.0	0.0
13	14.0	13.5	14.0	7.5	7.0	7.0	1.0	0.5	0.5	0.5	0.5	0.5
14	13.5	13.0	13.0	7.5	6.0	6.5	0.5	0.0	0.5	---	---	---
15	13.5	12.5	13.0	6.0	4.5	5.0	0.5	0.0	0.0	---	---	---
16	12.5	11.5	12.0	5.0	4.5	4.5	1.0	0.0	0.5	---	---	---
17	12.0	11.0	11.5	4.5	4.0	4.5	---	---	---	---	---	---
18	11.0	11.0	11.0	4.0	3.0	3.5	---	---	---	---	---	---
19	11.0	10.0	10.5	4.0	3.5	3.5	---	---	---	---	---	---
20	10.0	9.5	10.0	4.5	3.5	4.0	---	---	---	---	---	---
21	10.0	9.0	9.5	4.0	3.0	3.5	0.5	0.5	0.5	---	---	---
22	10.0	8.5	9.5	3.0	2.0	2.5	1.0	0.5	0.5	---	---	---
23	10.5	9.5	10.0	2.0	1.5	1.5	0.5	0.5	0.5	---	---	---
24	11.5	10.5	11.0	1.5	1.0	1.0	0.5	0.5	0.5	---	---	---
25	11.5	11.0	11.5	2.0	1.5	2.0	0.5	0.5	0.5	---	---	---
26	11.5	10.5	11.0	4.0	2.0	3.5	1.0	0.5	0.5	---	---	---
27	11.5	11.0	11.5	3.5	3.5	3.5	1.0	0.5	1.0	---	---	---
28	12.0	11.0	11.5	3.5	2.5	3.0	0.5	0.5	0.5	---	---	---
29	12.0	11.5	11.5	3.5	2.5	3.0	---	---	---	---	---	---
30	11.5	10.5	11.0	3.0	2.5	2.5	---	---	---	---	---	---
31	10.5	9.5	10.0	---	---	---	---	---	---	---	---	---
MONTH	19.5	8.5	13.0	10.0	1.0	5.5	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.0	1.0	1.5	---	---	---	11.5	10.5	11.0
2	---	---	---	2.5	1.5	2.0	---	---	---	12.5	11.5	12.0
3	---	---	---	2.5	2.0	2.0	6.5	6.0	6.5	13.5	12.5	13.0
4	---	---	---	2.0	1.5	2.0	6.0	5.0	5.5	13.5	13.0	13.0
5	---	---	---	3.0	2.0	2.5	5.5	4.5	5.0	13.0	12.5	13.0
6	---	---	---	3.0	2.5	3.0	5.0	4.5	5.0	12.5	12.0	12.0
7	---	---	---	2.5	2.0	2.5	6.0	4.5	5.0	13.5	11.5	12.5
8	---	---	---	2.5	2.0	2.5	6.0	5.5	5.5	13.5	12.5	13.0
9	---	---	---	3.0	2.0	2.5	7.0	5.5	6.5	13.0	12.5	13.0
10	---	---	---	2.5	2.0	2.0	8.0	6.0	7.0	14.0	12.5	13.0
11	---	---	---	2.0	1.5	2.0	6.5	5.5	6.0	14.0	13.5	14.0
12	---	---	---	2.5	2.0	2.0	6.0	5.0	5.5	14.0	13.5	13.5
13	---	---	---	3.0	2.5	2.5	6.0	5.0	5.5	14.0	13.5	13.5
14	---	---	---	3.0	2.0	2.5	6.0	5.5	6.0	14.5	13.5	14.0
15	---	---	---	2.0	1.5	2.0	7.5	6.0	6.5	14.5	14.0	14.0
16	---	---	---	3.5	2.0	3.0	10.0	7.0	8.0	15.0	13.5	14.0
17	---	---	---	4.0	3.0	3.5	9.0	8.5	9.0	14.5	14.0	14.0
18	---	---	---	4.0	3.0	3.5	10.5	9.0	9.5	14.5	14.0	14.0
19	---	---	---	3.0	2.5	3.0	11.0	10.0	10.5	14.0	13.0	13.5
20	---	---	---	2.5	2.5	2.5	11.5	10.5	11.0	13.0	12.5	12.5
21	---	---	---	3.0	2.0	2.5	12.0	10.5	11.5	12.5	12.0	12.5
22	---	---	---	2.5	2.0	2.5	13.0	11.5	12.0	12.5	11.5	12.0
23	1.5	0.5	1.0	3.0	2.0	2.5	13.5	12.5	13.0	12.0	11.5	12.0
24	1.0	0.5	1.0	4.0	2.5	3.5	13.5	13.0	13.0	13.0	12.0	12.5
25	1.0	0.5	1.0	4.5	4.0	4.0	13.5	12.5	13.0	13.0	12.5	13.0
26	1.5	1.0	1.0	---	---	---	13.0	12.0	12.5	13.0	12.5	12.5
27	1.0	0.5	1.0	---	---	---	12.0	11.0	11.5	13.5	12.5	13.0
28	1.5	0.5	1.0	---	---	---	11.0	11.0	11.0	13.5	13.0	13.0
29	---	---	---	---	---	---	11.0	10.0	10.5	15.5	13.5	14.5
30	---	---	---	---	---	---	11.0	9.5	10.5	16.0	14.5	15.5
31	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
MONTH	---	---	---	4.5	1.0	2.5	13.5	4.5	8.5	17.0	10.5	13.0

01177200 CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.5	16.5	21.5	20.5	21.0	28.0	27.0	27.5	28.5	28.0	28.5
2	---	---	---	20.5	20.0	20.0	27.5	26.5	27.0	29.5	27.5	28.5
3	---	---	---	20.5	19.5	20.0	26.5	26.0	26.0	30.5	27.5	29.0
4	---	---	---	20.5	20.5	20.5	26.5	25.5	26.0	29.5	28.0	29.0
5	---	---	---	21.0	20.5	21.0	27.5	26.0	26.5	29.5	28.0	28.5
6	---	---	---	21.0	20.0	20.5	27.5	26.0	27.0	28.0	27.0	27.5
7	---	---	---	21.5	20.5	21.0	28.0	27.0	27.5	26.5	25.5	26.0
8	20.5	20.0	20.5	22.5	21.0	21.5	28.0	27.0	27.5	25.5	24.0	24.5
9	21.0	19.5	20.5	23.0	22.0	22.5	28.0	27.0	27.5	24.0	23.0	23.5
10	22.0	20.5	21.0	24.0	22.5	23.5	28.5	27.5	28.0	24.0	22.5	22.5
11	23.5	21.0	22.5	24.5	23.0	24.0	28.0	27.5	28.0	---	---	---
12	24.5	23.0	23.5	23.5	22.5	23.0	28.0	27.5	28.0	---	---	---
13	24.0	22.5	23.0	23.0	22.0	22.5	27.5	27.0	27.5	---	---	---
14	23.0	21.5	22.5	24.0	22.5	23.0	27.5	27.0	27.0	---	---	---
15	22.5	21.5	22.0	23.5	22.5	23.0	27.5	25.5	26.5	---	---	---
16	22.5	21.5	22.0	23.5	22.0	23.0	26.0	25.5	26.0	---	---	---
17	22.5	21.5	22.0	24.0	22.5	23.5	26.5	25.5	26.0	---	---	---
18	21.5	20.5	21.0	24.0	23.0	23.5	27.0	26.0	26.5	20.5	20.0	20.0
19	20.5	20.0	20.0	25.0	23.5	24.0	27.0	26.0	26.5	20.0	19.5	20.0
20	20.0	19.5	19.5	25.0	24.0	24.5	26.5	25.5	26.0	20.0	19.5	19.5
21	20.0	19.5	20.0	24.5	24.0	24.5	26.5	25.5	26.0	19.5	19.0	19.0
22	21.0	19.5	20.0	24.5	23.5	24.0	26.0	25.5	26.0	19.0	17.5	18.0
23	20.5	19.5	20.0	25.0	24.0	24.5	26.0	25.0	25.5	18.5	17.5	18.0
24	21.5	20.0	21.0	26.5	24.5	25.5	26.5	25.5	26.0	18.5	17.5	18.0
25	22.5	21.0	21.5	26.5	25.5	26.0	26.5	25.5	26.0	18.0	17.5	17.5
26	23.0	21.5	22.0	26.0	25.0	25.5	27.0	25.0	26.0	18.0	17.0	17.5
27	22.5	22.0	22.0	25.0	25.0	25.0	27.0	25.5	26.0	18.5	17.5	18.0
28	22.5	22.0	22.0	25.5	25.0	25.0	27.0	26.5	26.5	18.5	18.0	18.5
29	22.5	22.0	22.0	26.0	25.0	25.5	27.5	26.5	27.0	18.5	18.0	18.5
30	22.5	21.5	22.5	27.0	25.5	26.0	28.5	27.0	28.0	18.5	17.5	18.0
31	---	---	---	27.5	26.5	27.0	29.0	28.0	28.5	---	---	---
MONTH	24.5	16.5	21.0	27.5	19.5	23.5	29.0	25.0	27.0	---	---	---
YEAR	30.5	0.0	13.0									

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.

LOCATION.--Lat 42°15'49", long 73°02'48", Berkshire County, two-parameter monitor at gaging station on right bank 20 ft (6 m) upstream from culvert on U.S. Highway 20, 0.2 mi (0.3 km) east of Bonny Rigg Corners, 1.7 mi (2.7 km) southeast of Becket Center, and 3.5 mi (5.6 km) west of Chester.

DRAINAGE AREA.--3.01 mi² (7.80 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to current year.
Water temperatures: December 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 413 micromhos Feb. 21; minimum, 50 micromhos Aug. 2.
Water temperatures: Maximum, 25.0°C Aug. 10; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 510 micromhos Feb. 13, 1972; minimum, 50 micromhos Aug. 2, 1973.
Water temperatures: Maximum, 25.0°C Aug. 10, 1973: minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO OCTOBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	192	152	176	153	139	146	109	101	104	115	86	93
2	225	192	211	158	115	148	111	101	105	98	89	93
3	242	207	226	116	100	108	110	106	107	109	98	103
4	243	230	237	118	107	113	109	108	108	137	106	117
5	245	232	239	119	113	116	191	109	138	119	110	112
6	247	238	244	122	119	121	137	84	117	131	118	122
7	232	86	141	122	119	120	96	76	85	136	127	132
8	107	87	96	120	83	113	133	81	96	135	60	120
9	132	108	119	97	82	88	121	92	104	127	123	125
10	147	133	142	102	97	100	96	92	94	124	119	123
11	159	147	154	112	103	107	105	94	98	128	124	126
12	168	147	161	109	105	107	105	99	103	129	126	127
13	152	146	149	116	110	113	169	103	123	129	125	127
14	165	154	160	142	110	118	111	107	109	129	125	127
15	160	132	143	115	108	112	120	108	114	[illegible]	123	125
16	163	140	155	121	114	118	119	109	113	132	123	125
17	161	156	158	129	118	124	116	112	114	127	124	126
18	169	53	141	129	125	127	118	114	116	128	123	125
19	52	51	51	147	129	131	117	115	116	128	117	123
20	52	51	51	170	92	112	146	117	125	114	98	103
21	54	51	52	110	96	102	127	121	123	107	104	106
22	65	54	60	132	109	116	175	113	135	137	108	114
23	140	67	93	135	117	126	111	105	106	116	90	95
24	172	144	165	126	123	124	112	108	111	96	90	93
25	177	171	175	130	126	127	115	112	114	99	94	98
26	185	176	180	145	76	101	117	113	115	104	98	101
27	191	181	185	94	78	85	144	117	126	106	103	104
28	191	180	186	97	94	96	134	119	124	128	103	111
29	191	134	155	95	90	92	130	117	122	115	107	112
30	149	120	139	103	96	100	134	122	124	112	103	107
31	138	117	125	---	---	---	183	121	151	109	105	107
MONTH	247	51	151	170	76	114	191	76	114	137	60	114

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	110	108	109	174	124	156	131	85	118	108	98	103
2	177	96	125	195	166	175	94	80	86	106	102	105
3	106	85	91	180	155	160	104	95	100	118	96	106
4	109	72	89	366	135	172	115	95	107	95	89	91
5	102	75	90	136	130	132	123	100	112	98	92	94
6	108	89	101	135	128	131	97	87	91	103	98	100
7	107	100	103	143	132	137	88	84	86	106	103	105
8	201	106	116	136	97	113	89	85	87	111	106	108
9	147	112	124	116	96	102	93	88	90	118	103	111
10	132	107	119	108	96	101	118	75	92	107	102	104
11	122	113	117	132	99	106	114	79	90	111	69	78
12	143	101	118	112	78	94	90	85	88	92	77	84
13	118	113	116	83	75	77	91	87	90	92	87	90
14	120	109	114	83	73	79	108	90	93	97	92	95
15	131	106	115	90	81	84	100	95	98	113	97	101
16	111	105	107	80	68	74	105	99	101	115	87	95
17	---	---	120	71	57	64	103	100	102	98	91	95
18	---	---	120	80	61	66	116	103	107	122	77	90
19	---	---	120	79	67	72	121	110	111	89	81	85
20	149	103	115	92	80	88	112	109	111	112	90	96
21	413	105	132	98	92	94	114	111	112	109	75	83
22	321	109	142	100	95	97	118	113	115	90	83	87
23	132	117	122	120	88	102	127	117	119	97	91	95
24	122	119	121	114	100	103	122	120	121	103	97	100
25	128	125	127	127	101	105	124	119	121	107	101	104
26	298	132	150	138	93	109	131	92	119	107	102	105
27	149	109	137	108	102	105	92	86	89	113	103	108
28	152	52	101	115	106	111	89	81	84	122	106	111
29	---	---	---	120	113	117	153	84	92	131	92	101
30	---	---	---	124	119	122	96	86	90	110	93	98
31	---	---	---	123	121	122	---	---	---	121	101	108
MONTH	413	52	116	366	57	109	153	75	101	131	69	98

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	111	103	105	84	71	79	186	142	158	176	138	155
2	110	107	109	98	85	91	180	50	104	179	143	160
3	113	109	111	107	96	100	91	70	81	190	148	168
4	120	111	115	107	71	91	110	92	101	201	154	174
5	120	114	117	74	67	71	126	107	115	220	171	191
6	123	113	118	86	75	80	159	123	138	222	173	192
7	123	111	117	97	87	92	165	144	152	251	177	208
8	133	114	120	117	95	102	173	139	153	228	191	210
9	142	120	126	171	106	127	173	143	158	351	202	253
10	153	126	137	155	131	140	180	145	163	332	263	290
11	151	127	139	196	156	169	195	141	161	315	214	262
12	157	136	145	203	160	176	170	122	140	302	178	247
13	151	121	137	199	148	166	126	114	120	288	195	236
14	134	113	123	164	140	152	158	125	139	275	197	228
15	130	113	120	177	123	157	162	110	144	174	158	166
16	133	121	128	135	109	115	110	99	102	186	147	160
17	146	127	138	159	130	144	125	103	113	188	154	169
18	149	120	135	182	135	159	136	121	127	185	156	171
19	131	114	124	172	141	154	145	130	137	182	147	162
20	142	129	134	174	142	155	155	133	142	187	147	165
21	167	135	152	171	117	142	159	134	145	203	160	182
22	175	159	166	173	103	120	161	138	149	199	161	183
23	178	143	163	164	116	131	174	143	157	170	144	158
24	159	134	146	158	128	146	175	146	159	181	147	160
25	180	150	164	176	141	155	188	161	173	154	137	145
26	179	150	167	169	154	162	181	151	170	155	136	145
27	185	157	172	160	109	135	188	158	173	164	147	156
28	194	112	154	119	103	109	181	122	143	169	149	156
29	121	92	102	141	108	120	135	112	126	195	171	184
30	95	59	69	152	120	136	145	112	126	206	164	183
31	---	---	---	165	132	146	160	128	143	---	---	---
MONTH	194	59	132	203	67	130	195	50	139	351	136	187
YEAR	413	50	125									

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.5	8.5	10.5	6.0	4.5	5.0	0.0	0.0	0.0	0.5	0.0	0.0
2	12.0	6.5	9.0	7.0	5.5	5.5	0.5	0.0	0.0	0.5	0.0	0.0
3	13.5	7.5	10.0	9.0	7.0	8.5	2.0	0.5	1.0	0.0	0.0	0.0
4	14.0	9.0	11.0	8.0	5.5	7.0	1.0	0.0	0.0	0.5	0.0	0.0
5	13.5	8.5	11.0	5.0	3.5	4.0	0.5	0.0	0.0	1.0	0.0	0.5
6	13.5	10.5	12.0	5.5	4.5	4.5	1.0	0.5	0.5	0.0	0.0	0.0
7	13.5	12.5	13.0	5.5	3.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0
8	13.0	11.5	12.0	6.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
9	11.0	8.0	9.5	5.5	5.0	5.5	1.0	0.0	0.5	0.0	0.0	0.0
10	9.0	6.0	7.5	6.0	4.5	5.0	2.0	1.0	1.5	0.0	0.0	0.0
11	9.5	4.5	7.0	4.5	4.0	4.0	1.5	0.0	0.5	0.0	0.0	0.0
12	10.0	7.5	9.0	6.0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
13	9.5	7.0	8.5	6.0	5.0	5.5	1.0	0.0	0.5	0.0	0.0	0.0
14	9.5	6.0	7.5	5.5	0.5	2.5	1.0	0.0	0.5	0.0	0.0	0.0
15	9.0	6.0	7.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
16	7.0	5.5	6.0	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
17	10.0	6.5	8.0	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
18	7.0	4.5	6.0	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19	7.0	6.5	7.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
20	6.5	5.0	6.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
21	6.0	4.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
22	6.5	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	9.0	6.5	7.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
24	11.5	8.5	9.5	0.5	0.0	0.0	1.5	0.5	1.0	0.0	0.0	0.0
25	9.5	7.0	8.0	1.5	0.5	1.0	1.5	1.0	1.5	0.0	0.0	0.0
26	9.0	5.5	7.0	2.0	0.5	1.5	1.5	1.0	1.5	0.5	0.0	0.5
27	8.5	3.5	5.5	2.5	1.0	2.0	1.5	0.5	1.0	1.0	0.0	0.5
28	8.5	5.0	6.5	3.0	2.0	2.5	0.5	0.0	0.5	0.5	0.0	0.5
29	10.0	8.5	9.0	2.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
30	9.0	6.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	5.5	3.0	4.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	14.0	3.0	8.0	9.0	0.0	2.0	2.0	0.0	0.0	1.0	0.0	0.0

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	1.0	0.0	0.0	5.0	4.5	5.0	13.5	7.5	10.5
2	0.0	0.0	0.0	1.5	0.0	0.5	5.0	4.0	4.5	14.5	10.0	12.5
3	0.0	0.0	0.0	0.5	0.0	0.5	4.5	3.5	4.0	14.5	11.0	12.5
4	0.0	0.0	0.0	0.5	0.0	0.0	4.0	1.0	3.0	11.5	9.0	10.0
5	0.5	0.0	0.0	1.0	0.0	0.0	4.0	1.0	2.5	9.5	7.5	8.0
6	0.0	0.0	0.0	1.0	0.0	0.5	5.0	1.5	3.0	10.5	7.0	8.5
7	0.5	0.0	0.5	1.5	0.5	1.0	7.0	2.5	4.5	13.0	6.0	9.5
8	1.0	0.0	0.5	1.0	0.0	0.5	5.0	3.0	4.0	10.5	7.5	9.0
9	0.0	0.0	0.0	2.5	0.5	1.0	6.5	1.5	4.0	9.5	8.5	9.0
10	0.0	0.0	0.0	2.5	0.5	1.5	4.5	3.5	4.0	14.5	9.5	12.0
11	0.5	0.0	0.0	1.5	1.0	1.5	4.0	1.5	3.0	13.0	11.0	12.0
12	0.5	0.0	0.0	3.5	1.5	2.5	5.0	0.5	2.5	13.0	10.0	11.5
13	0.5	0.0	0.0	4.0	1.5	2.5	5.5	1.0	3.0	11.0	9.0	10.0
14	0.5	0.0	0.0	2.5	1.0	2.0	6.5	1.0	3.5	12.0	8.0	10.0
15	0.0	0.0	0.0	2.5	2.0	2.0	8.5	2.0	5.0	10.5	8.5	9.5
16	0.0	0.0	0.0	5.0	2.5	3.5	11.0	4.0	7.0	12.5	8.5	10.5
17	0.0	0.0	0.0	4.0	3.0	3.5	10.5	7.0	8.5	13.0	9.0	11.0
18	0.0	0.0	0.0	3.0	0.5	1.5	13.5	8.5	10.5	11.0	9.0	10.0
19	0.0	0.0	0.0	2.5	0.0	1.0	13.0	9.0	11.0	11.5	8.5	10.0
20	0.5	0.0	0.0	2.5	0.5	1.5	13.5	8.0	10.5	11.0	8.5	10.0
21	0.5	0.0	0.0	3.5	0.0	1.5	14.0	7.5	10.5	10.5	9.0	10.0
22	0.5	0.0	0.0	1.5	0.5	1.0	16.5	10.0	13.5	12.5	9.5	11.0
23	0.5	0.0	0.0	4.0	0.0	1.5	17.0	12.5	14.0	11.5	9.0	10.5
24	0.5	0.0	0.0	5.0	0.0	2.5	14.5	9.5	12.0	13.5	10.5	12.0
25	0.5	0.0	0.0	5.5	1.5	3.5	14.5	8.5	11.5	12.0	10.5	11.0
26	0.5	0.0	0.0	4.0	3.0	3.5	11.5	8.0	9.5	10.5	9.5	10.0
27	0.5	0.0	0.0	6.0	2.5	4.0	8.0	7.5	8.0	11.5	9.5	10.0
28	0.5	0.0	0.0	5.5	1.0	3.0	10.0	7.5	8.5	11.0	10.0	10.5
29	---	---	---	5.5	1.5	3.5	8.0	7.0	7.5	14.0	11.0	12.5
30	---	---	---	4.5	2.5	4.0	12.0	6.0	8.5	16.0	12.0	14.0
31	---	---	---	5.5	4.0	5.0	---	---	---	16.0	13.5	14.5
MONTH	1.0	0.0	0.0	6.0	0.0	2.0	17.0	0.5	7.0	16.0	6.0	10.5

CONNECTICUT RIVER BASIN

01180800 WALKER BROOK NEAR BECKET CENTER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	13.0	14.5	21.0	18.5	19.5	22.0	19.5	20.5	23.0	19.0	21.0
2	16.0	13.0	14.5	21.5	18.5	20.0	21.0	19.0	20.0	22.5	20.0	21.0
3	15.5	10.5	13.0	20.5	18.5	19.5	22.0	20.0	21.0	24.0	19.5	22.0
4	15.5	13.0	14.5	19.5	18.5	19.0	22.0	19.5	20.5	24.5	20.5	22.5
5	17.5	14.5	16.0	19.5	18.0	18.5	22.0	18.0	19.5	23.0	20.5	22.0
6	18.5	15.5	17.0	20.0	17.5	18.5	22.0	16.5	19.0	21.5	19.5	21.0
7	19.0	16.5	17.5	20.5	16.0	18.5	23.0	17.5	20.0	20.0	17.5	18.5
8	20.0	15.5	17.5	22.5	18.5	20.5	23.0	19.0	21.0	17.5	16.0	16.5
9	21.0	16.0	18.5	23.0	19.5	20.5	24.5	20.0	22.0	17.5	14.0	15.5
10	21.0	16.5	18.5	22.0	17.5	19.5	25.0	20.5	22.5	17.5	12.0	14.5
11	23.5	16.5	19.5	22.5	19.5	21.0	22.5	20.5	21.5	17.5	13.0	15.5
12	22.5	18.5	20.0	19.0	16.5	17.5	22.5	19.0	20.5	17.0	13.5	15.0
13	19.0	17.0	18.0	20.0	15.0	17.0	21.5	17.5	19.5	16.5	12.0	14.5
14	19.5	15.5	17.5	22.0	17.5	19.5	20.5	17.0	19.0	14.0	13.0	13.5
15	16.5	14.5	15.5	20.0	17.0	18.0	19.0	17.5	18.0	14.5	12.5	13.5
16	17.5	14.0	16.0	19.5	16.5	18.0	19.0	17.5	18.0	15.5	13.0	14.0
17	18.0	14.5	16.0	18.0	17.0	17.5	20.0	17.0	18.5	15.0	12.0	13.5
18	15.5	13.0	14.0	20.0	15.5	17.5	20.0	17.5	18.5	15.0	13.0	13.5
19	17.0	13.0	14.5	21.0	16.0	18.0	20.5	17.0	18.5	15.0	12.0	13.5
20	18.0	15.0	16.5	20.5	17.5	19.0	20.5	16.0	18.0	14.5	11.0	13.0
21	20.0	17.0	18.5	20.0	17.5	18.0	20.0	15.5	17.5	13.5	10.5	12.0
22	19.5	18.5	19.0	21.0	16.5	18.5	19.0	16.5	17.5	11.5	9.5	10.0
23	19.5	17.0	18.0	21.5	16.5	19.0	20.0	15.0	17.5	15.5	11.5	13.5
24	20.5	17.5	19.0	22.5	16.5	19.5	19.5	16.0	17.5	13.5	11.5	12.5
25	20.0	17.5	18.5	22.0	17.0	19.5	20.0	15.5	17.5	13.5	11.0	12.0
26	21.5	17.5	19.5	20.0	18.5	19.0	21.0	17.0	19.0	14.0	10.5	12.0
27	19.5	18.5	19.0	19.5	18.5	19.0	21.0	18.0	19.5	15.5	11.5	13.0
28	18.5	17.0	17.5	22.5	18.0	20.0	20.0	18.5	19.5	16.0	14.0	14.5
29	19.5	17.5	18.5	22.5	19.5	20.5	22.5	18.0	20.0	14.5	12.0	13.5
30	19.5	17.5	18.5	22.0	18.0	20.0	24.0	19.5	21.5	13.5	10.5	12.0
31	---	---	---	22.5	18.0	20.5	24.0	19.5	21.5	---	---	---
MONTH	23.5	10.5	17.0	23.0	15.0	19.0	25.0	15.0	19.5	24.5	9.5	15.5
YEAR	25.0	0.0	8.5									

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.

LOCATION.--Lat 42°05'59", long 72°38'28", Hampden County, four-parameter monitor on left bank at canal, 0.3 mi (0.5 km) downstream from dam, 0.6 mi (1.0 km) downstream from Block Brook, 1.0 mi (1.6 km) west of West Springfield, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--513 mi² (1,329 km²).

PERIOD OF RECORD.--Chemical analyses: June 1972 to current year.
Water temperatures: June 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 482 micromhos Feb. 2; minimum, 23 micromhos Mar. 17, 18.
pH: Maximum, 7.8 Sept. 4; minimum, 6.2 Jan. 22.
Dissolved oxygen: Maximum, 18.6 mg/l Feb. 10; minimum, 4.3 mg/l Oct. 30.
Water temperatures: Maximum, 29.0°C Sept. 4; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 482 micromhos Feb. 2, 1973; minimum, 23 micromhos Mar. 17, 18, 1973.
pH: Maximum, 7.8 Sept. 4, 1973; minimum, 6.2 Jan. 22, 1973.
Dissolved oxygen: Maximum, 18.6 mg/l Feb. 10, 1973; minimum, 4.2 mg/l Sept. 9, 29, 1972.
Water temperatures: Maximum, 29.0°C Sept. 4, 1973; minimum, freezing point on many days during winter period of 1973.

REMARKS.--PH probe not operating Oct. 1 to Nov. 3. Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	189	169	179	127	120	123	187	119	136	152	63	102
2	191	170	178	137	125	130	119	91	101	74	68	72
3	175	165	170	151	103	135	119	95	107	68	60	65
4	168	163	166	101	90	95	121	93	110	139	65	90
5	173	165	169	103	89	97	121	92	107	135	106	121
6	172	156	166	106	92	99	113	85	96	127	88	101
7	156	87	138	100	93	97	90	55	64	130	104	114
8	132	65	87	114	95	102	120	59	65	135	120	128
9	72	62	65	124	58	78	136	76	97	137	112	123
10	84	74	81	63	55	58	75	50	61	135	113	126
11	95	83	92	77	64	69	80	52	69	180	112	139
12	113	96	107	81	77	79	83	76	80	183	167	175
13	125	110	117	84	76	79	159	79	107	244	161	177
14	130	118	123	108	84	91	101	90	94	190	175	187
15	134	121	129	103	78	89	97	88	93	194	170	181
16	130	121	125	83	76	80	120	88	100	206	157	183
17	126	119	122	102	83	91	139	111	121	186	156	164
18	125	119	122	111	97	105	122	101	117	154	142	149
19	127	120	124	120	96	111	110	96	103	155	148	152
20	145	127	134	123	80	100	109	88	98	156	103	134
21	147	141	144	99	72	81	115	99	107	162	88	103
22	156	146	151	106	85	93	249	103	169	95	78	90
23	156	132	141	116	94	101	127	95	102	103	71	84
24	145	130	136	114	101	107	95	82	90	62	58	61
25	173	133	139	110	89	95	94	73	88	83	60	72
26	148	136	141	100	53	79	95	88	92	85	75	80
27	152	141	147	66	54	62	103	95	99	91	78	83
28	152	142	147	69	60	64	123	96	105	95	64	84
29	170	151	158	83	73	78	121	104	112	96	86	92
30	176	141	163	111	85	94	124	109	117	108	92	99
31	145	126	134	---	---	---	239	123	177	114	97	105
MONTH	191	62	135	151	53	92	249	50	103	244	58	117

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	118	100	106	117	104	110	119	45	77	137	80	106
2	482	99	176	129	111	119	---	---	---	132	86	108
3	305	61	108	124	108	118	---	---	---	128	89	99
4	73	52	65	115	77	106	110	89	96	121	85	98
5	60	44	55	92	84	88	110	91	104	120	82	95
6	62	56	59	83	73	75	89	78	86	137	83	102
7	65	59	61	77	71	74	90	83	86	119	85	100
8	85	64	73	83	67	77	85	62	77	120	74	90
9	90	78	83	71	56	65	87	48	75	79	75	77
10	207	82	195	72	66	68	86	65	78	83	70	76
11	---	---	---	73	62	71	61	58	60	72	61	68
12	---	---	---	79	65	74	67	60	63	86	57	65
13	---	---	---	72	59	63	69	66	68	84	63	70
14	---	---	---	59	55	57	70	66	69	---	---	---
15	187	101	140	69	59	63	71	68	70	---	---	---
16	140	103	114	70	64	66	71	65	69	---	---	---
17	133	100	114	68	23	49	73	69	72	124	43	85
18	134	124	129	44	23	39	74	70	71	121	69	89
19	135	122	127	47	43	44	75	71	72	99	57	78
20	136	115	126	60	46	53	90	73	81	86	54	74
21	133	110	117	61	51	55	96	87	94	79	57	68
22	146	117	129	80	60	66	96	69	85	109	79	96
23	137	61	98	85	78	82	101	84	97	116	52	88
24	70	62	66	211	79	110	105	96	103	141	83	113
25	80	75	77	253	176	232	113	81	99	111	67	83
26	130	80	95	277	71	211	86	83	84	77	57	66
27	134	93	106	268	235	250	88	73	81	103	53	72
28	105	100	102	248	214	233	88	69	75	68	55	59
29	---	---	---	241	219	230	97	68	78	97	41	66
30	---	---	---	242	230	236	127	72	96	91	42	68
31	---	---	---	240	114	177	---	---	---	109	58	76
MONTH	482	44	105	277	23	108	127	45	81	141	41	83

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	85	48	69	76	61	68	130	114	120	140	121	127
2	105	50	79	87	74	82	133	67	115	184	133	167
3	117	59	89	85	78	81	70	53	63	195	124	178
4	92	64	78	78	67	75	72	46	63	200	187	193
5	103	74	87	66	63	64	81	73	78	183	108	142
6	114	75	91	69	56	64	87	80	83	152	102	127
7	123	88	103	58	55	56	99	88	93	164	107	144
8	114	91	99	59	56	57	108	100	104	159	128	145
9	122	65	93	65	57	60	117	109	113	162	148	153
10	135	76	104	87	63	74	124	116	119	164	153	160
11	134	75	104	94	76	85	119	114	117	167	154	160
12	107	66	86	99	76	88	128	117	122	173	164	168
13	---	---	---	103	88	96	126	114	120	179	158	168
14	---	---	---	107	101	104	117	110	113	173	157	168
15	---	---	---	109	105	107	126	115	120	181	151	172
16	---	---	---	111	100	105	131	97	119	180	174	178
17	---	---	---	119	97	108	96	90	93	174	154	164
18	---	---	---	125	112	118	99	92	95	161	109	149
19	123	116	120	120	112	116	111	99	108	168	145	153
20	127	122	125	129	115	122	116	111	113	177	152	165
21	134	122	129	127	97	113	118	110	113	165	158	162
22	134	127	130	140	116	130	123	111	117	170	157	161
23	140	127	135	123	109	116	121	113	115	183	169	175
24	136	133	134	120	112	116	133	100	110	176	162	169
25	134	128	132	124	109	117	133	99	109	162	153	158
26	133	124	128	123	117	118	150	108	132	160	151	155
27	131	127	128	126	121	123	168	153	159	152	145	148
28	140	126	132	127	114	121	165	118	130	175	151	157
29	133	81	103	120	111	115	157	122	131	171	151	162
30	87	61	71	124	110	118	161	128	137	176	161	167
31	---	---	---	119	104	112	177	129	141	---	---	---
MONTH	140	48	106	140	55	98	177	46	112	200	102	160
YEAR	482	23	109									

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), NOVEMBER 1972 TO SEPTEMBER 1973

	NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.7	6.6	6.6	7.2	7.0	7.1
2	---	---	---	6.7	6.5	6.6	7.0	6.9	7.0
3	---	---	---	6.6	6.5	6.5	7.0	6.9	6.9
4	6.7	6.5	6.7	6.8	6.6	6.7	6.9	6.9	6.9
5	6.6	6.4	6.6	6.9	6.8	6.9	7.0	6.9	6.9
6	6.7	6.6	6.6	6.9	6.8	6.9	6.9	6.8	6.9
7	6.7	6.6	6.6	6.9	6.7	6.8	6.9	6.8	6.8
8	6.7	6.6	6.6	6.8	6.8	6.8	6.9	6.8	6.8
9	6.7	6.5	6.6	7.0	6.9	6.9	6.9	6.8	6.8
10	6.6	6.5	6.5	6.9	6.8	6.9	6.9	6.8	6.9
11	6.6	6.5	6.5	7.0	6.9	6.9	6.9	6.8	6.9
12	6.6	6.5	6.6	7.0	6.9	7.0	7.0	6.8	6.9
13	6.6	6.6	6.6	7.1	6.6	7.0	7.0	6.8	6.9
14	6.6	6.6	6.6	7.1	7.0	7.1	6.9	6.8	6.9
15	6.6	6.5	6.6	7.3	7.1	7.2	7.0	6.9	6.9
16	6.6	6.5	6.6	7.2	7.1	7.1	7.0	6.9	7.0
17	6.8	6.7	6.8	7.2	7.0	7.1	7.1	7.0	7.0
18	6.9	6.8	6.8	7.3	7.2	7.2	7.0	6.9	7.0
19	6.8	6.4	6.8	7.3	7.2	7.2	7.0	6.9	7.0
20	6.8	6.8	6.8	7.2	7.2	7.2	7.0	6.8	6.9
21	6.8	6.7	6.8	7.2	7.2	7.2	6.9	6.7	6.8
22	6.8	6.7	6.7	7.3	7.2	7.2	6.8	6.2	6.8
23	6.8	6.7	6.7	7.2	7.1	7.2	6.8	6.4	6.8
24	6.8	6.7	6.7	7.2	7.1	7.2	6.9	6.7	6.8
25	6.7	6.6	6.7	7.2	7.1	7.2	6.9	6.8	6.9
26	6.7	6.6	6.7	7.2	7.0	7.2	7.0	6.9	6.9
27	6.6	6.6	6.6	7.2	6.9	7.2	7.0	6.9	6.9
28	6.6	6.6	6.6	7.2	7.1	7.2	7.0	6.8	6.9
29	6.6	6.5	6.6	7.2	7.2	7.2	7.0	6.9	7.0
30	6.6	6.5	6.5	7.2	7.1	7.1	7.0	6.9	6.9
31	---	---	---	7.2	7.2	7.2	7.0	6.9	6.9
MONTH	6.9	6.4	6.6	7.3	6.5	7.0	7.2	6.2	6.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	7.2	7.1	7.1	6.9	6.8	6.8	7.1	6.8	7.0
2	7.0	6.9	6.9	7.2	7.1	7.1	6.9	6.8	6.8	7.0	6.9	7.0
3	7.0	6.4	6.9	7.1	7.0	7.0	7.2	6.8	6.9	7.1	6.9	7.0
4	6.9	6.8	6.8	7.0	7.0	7.0	7.0	6.9	7.0	7.1	7.0	7.0
5	6.9	6.8	6.8	7.1	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.0
6	6.9	6.8	6.8	7.1	6.9	7.0	7.1	6.9	7.0	7.1	7.0	7.0
7	6.9	6.8	6.9	7.1	6.9	7.0	7.0	6.9	7.0	7.1	6.9	7.0
8	6.9	6.9	6.9	7.0	6.9	6.9	7.0	6.9	6.9	6.9	6.8	6.9
9	7.1	6.9	7.0	7.1	6.8	6.9	7.1	6.9	7.0	6.8	6.7	6.8
10	7.0	6.9	7.0	7.0	6.8	6.9	7.0	7.0	7.0	6.9	6.7	6.8
11	7.0	7.0	7.0	6.9	6.8	6.9	7.1	6.9	7.0	6.8	6.7	6.8
12	7.0	7.0	7.0	7.0	6.9	6.9	7.0	6.9	7.0	6.8	6.7	6.7
13	7.1	7.0	7.1	7.0	6.9	6.9	7.1	6.9	7.0	6.8	6.7	6.7
14	7.1	7.0	7.1	6.8	6.8	6.8	7.0	6.9	7.0	---	---	---
15	7.1	7.0	7.0	6.8	6.8	6.8	7.0	6.9	7.0	---	---	---
16	7.0	6.9	7.0	7.1	6.8	6.9	7.1	6.9	7.0	---	---	---
17	7.0	6.9	6.9	6.9	6.7	6.9	7.1	7.0	7.0	7.0	6.9	6.9
18	7.0	6.9	7.0	6.7	6.7	6.7	7.1	6.8	7.0	6.9	6.8	6.9
19	7.0	6.9	7.0	6.8	6.7	6.8	7.1	6.7	6.9	7.0	6.8	6.9
20	7.1	7.0	7.0	6.9	6.8	6.8	7.2	6.7	7.0	7.0	6.8	6.9
21	7.1	6.9	7.0	6.9	6.8	6.8	7.1	7.0	7.0	7.0	6.8	6.9
22	7.1	7.0	7.0	7.0	6.8	6.9	7.1	6.9	7.0	7.0	6.8	6.9
23	7.2	6.9	7.1	7.0	6.9	6.9	7.2	6.9	7.0	7.0	6.8	6.9
24	7.2	6.6	7.1	7.0	6.8	6.9	7.1	6.9	7.0	7.0	6.9	6.9
25	7.2	7.0	7.1	6.9	6.8	6.9	7.1	6.9	7.0	7.0	6.9	6.9
26	7.2	7.1	7.2	7.0	6.8	6.9	7.0	6.9	6.9	7.0	6.9	6.9
27	7.3	7.1	7.2	7.0	6.8	6.9	7.2	6.9	7.0	7.0	6.9	7.0
28	7.2	7.1	7.2	7.0	6.8	6.9	7.1	6.9	7.0	7.0	6.9	7.0
29	---	---	---	7.1	6.8	6.8	7.0	6.9	7.0	7.1	6.9	7.0
30	---	---	---	6.9	6.8	6.9	7.1	6.9	7.0	7.0	6.9	6.9
31	---	---	---	6.9	6.8	6.9	---	---	---	7.0	6.8	6.9
MONTH	7.3	6.4	7.0	7.2	6.7	6.9	7.2	6.7	7.0	7.1	6.7	6.9

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

PH (UNITS), NOVEMBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.8	6.9	6.8	6.7	6.8	7.2	6.9	7.0	7.2	6.9	7.0
2	7.0	6.8	6.8	7.0	6.8	6.9	7.0	6.6	6.9	7.5	7.1	7.3
3	6.9	6.7	6.8	7.0	6.8	6.9	6.9	6.5	6.6	7.5	7.2	7.4
4	6.9	6.8	6.8	6.9	6.8	6.8	7.2	6.6	6.7	7.8	7.2	7.5
5	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.6	6.7	7.5	7.1	7.2
6	6.9	6.7	6.8	6.9	6.8	6.8	6.9	6.7	6.8	7.1	7.1	7.1
7	6.9	6.7	6.8	7.0	6.8	6.9	7.0	6.8	6.8	7.2	7.0	7.1
8	6.8	6.6	6.7	7.0	6.8	6.9	7.0	6.7	6.9	7.2	7.1	7.1
9	7.0	6.8	6.9	7.0	6.8	6.9	6.9	6.8	6.8	7.3	7.1	7.2
10	6.9	6.7	6.8	7.0	6.8	6.9	7.2	6.8	7.0	7.2	7.0	7.1
11	7.0	6.7	6.8	7.0	6.8	6.9	7.1	6.8	7.0	7.3	7.1	7.2
12	6.8	6.6	6.6	7.0	6.8	6.9	7.0	6.9	6.9	7.3	7.1	7.2
13	---	---	---	7.2	6.9	7.0	7.1	6.9	7.0	7.2	7.1	7.2
14	---	---	---	7.2	7.0	7.1	7.1	6.8	6.9	7.1	7.0	7.0
15	---	---	---	7.1	7.0	7.0	7.0	6.8	6.8	7.0	6.9	7.0
16	---	---	---	7.3	6.9	7.1	6.9	6.8	6.8	6.9	6.8	6.9
17	---	---	---	7.1	6.9	7.0	6.9	6.8	6.8	7.0	6.9	7.0
18	---	---	---	7.3	6.8	7.0	6.8	6.7	6.8	6.9	6.8	6.9
19	7.0	6.8	6.9	7.3	6.8	7.1	6.7	6.7	6.7	6.9	6.8	6.9
20	6.9	6.8	6.8	7.2	6.8	7.0	6.8	6.7	6.7	7.1	6.9	7.0
21	7.0	6.8	6.9	6.9	6.7	6.8	7.0	6.7	6.8	7.1	6.9	7.0
22	7.0	6.9	6.9	7.0	6.7	6.9	6.9	6.7	6.8	7.0	7.0	7.0
23	7.0	6.9	7.0	7.1	6.8	6.9	7.0	6.7	6.9	7.0	6.9	6.9
24	7.2	7.0	7.1	7.3	6.9	7.1	7.0	6.8	6.9	7.0	6.8	6.9
25	7.3	7.0	7.1	7.3	6.9	7.1	6.9	6.8	6.9	6.8	6.7	6.8
26	7.2	7.0	7.1	7.1	6.9	7.0	7.1	6.8	6.9	6.9	6.8	6.9
27	7.3	7.1	7.2	7.0	6.8	6.9	7.3	7.0	7.1	7.0	6.8	6.9
28	7.1	7.0	7.1	7.0	6.8	6.9	7.1	6.8	6.9	7.0	6.9	6.9
29	7.0	7.0	7.0	7.1	6.9	7.0	7.1	6.8	6.9	7.0	6.9	6.9
30	6.9	6.7	6.8	7.2	6.9	7.0	7.0	6.7	6.9	7.0	6.9	7.0
31	---	---	---	7.2	6.9	7.0	7.3	6.8	7.0	---	---	---
MONTH	7.3	6.6	6.9	7.3	6.7	6.9	7.3	6.5	6.9	7.8	6.7	7.1
PERIOD	7.8	6.2	6.9									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.7	4.8	5.3	9.3	8.3	8.9	---	---	---	13.6	12.0	12.9
2	7.2	5.5	6.2	8.8	7.2	8.3	---	---	---	13.8	13.2	13.5
3	7.2	6.4	6.7	8.6	7.4	7.9	---	---	---	---	---	---
4	7.2	5.4	6.6	9.4	8.6	9.1	---	---	---	---	---	---
5	7.0	6.5	6.7	9.8	8.8	9.4	13.7	13.2	13.5	---	---	---
6	6.6	6.0	6.0	11.0	9.8	10.3	13.1	11.4	12.5	---	---	---
7	7.5	6.1	6.6	11.2	10.1	10.8	---	---	---	---	---	---
8	8.2	6.1	7.5	10.6	9.2	9.7	---	---	---	---	---	---
9	8.9	8.2	8.6	11.4	9.1	10.5	---	---	---	---	---	---
10	9.7	8.6	8.9	11.8	10.4	11.3	---	---	---	---	---	---
11	9.7	8.6	9.2	10.9	10.6	10.7	---	---	---	---	---	---
12	8.9	8.2	8.2	10.5	9.8	10.3	---	---	---	12.5	11.6	12.1
13	7.5	6.8	7.1	9.7	8.9	9.4	---	---	---	12.9	11.8	12.3
14	7.5	7.0	7.3	9.0	8.4	8.7	---	---	---	12.3	10.7	11.8
15	7.6	6.6	7.0	11.2	8.8	10.2	---	---	---	11.5	10.1	11.1
16	7.6	6.7	7.1	---	---	---	---	---	---	---	---	---
17	7.9	6.9	7.5	12.5	12.3	12.4	---	---	---	---	---	---
18	7.9	7.1	7.6	13.3	12.1	12.7	---	---	---	---	---	---
19	8.3	7.1	7.9	12.5	11.8	12.1	---	---	---	---	---	---
20	9.2	8.7	8.7	11.9	10.1	10.9	---	---	---	---	---	---
21	9.9	8.6	9.0	12.2	10.5	11.9	---	---	---	---	---	---
22	8.6	8.0	8.2	13.8	11.8	13.3	13.2	12.7	12.9	---	---	---
23	8.7	7.6	8.2	---	---	---	14.5	13.2	13.9	---	---	---
24	7.9	6.2	7.4	---	---	---	13.3	11.7	12.6	---	---	---
25	7.6	6.8	7.1	---	---	---	12.2	10.9	11.5	16.2	13.1	14.3
26	7.6	6.8	7.1	---	---	---	11.0	10.5	10.8	14.6	12.0	13.0
27	7.6	6.6	7.2	---	---	---	10.9	10.2	10.6	12.6	11.5	12.1
28	6.9	6.2	6.6	---	---	---	12.2	10.2	11.3	12.1	10.1	11.4
29	6.1	5.0	5.4	---	---	---	14.3	12.3	13.6	15.7	12.5	14.6
30	6.5	4.3	5.3	---	---	---	15.0	13.9	14.5	16.1	14.1	15.2
31	8.9	6.8	8.0	---	---	---	14.5	12.7	13.6	15.7	13.8	14.8
MONTH	9.9	4.3	7.3	---	---	---	---	---	---	---	---	---

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.9	14.1	15.3	13.7	10.5	12.0	11.1	10.6	11.0	9.8	8.7	9.4
2	14.6	12.9	13.8	12.3	11.7	12.1	11.4	10.9	11.1	8.7	7.8	8.4
3	14.3	12.9	13.6	13.0	10.4	11.9	12.4	11.8	12.0	8.0	7.1	7.7
4	15.3	13.5	14.2	13.5	12.3	12.8	12.6	12.0	12.3	8.4	6.7	7.7
5	14.8	12.1	13.2	13.7	11.7	12.7	13.3	12.2	12.8	9.3	8.4	8.9
6	16.0	13.0	14.1	14.2	12.1	13.4	13.9	12.3	13.0	9.6	9.0	9.3
7	13.9	11.8	12.9	14.3	13.4	13.9	14.0	12.2	13.1	9.5	8.8	9.2
8	12.1	11.3	11.6	13.3	12.2	12.9	---	---	---	8.8	7.9	8.4
9	15.8	12.2	13.7	15.2	12.8	13.6	---	---	---	8.3	7.6	8.0
10	18.6	16.2	16.8	15.1	12.7	13.7	---	---	---	8.6	8.0	8.3
11	17.3	15.6	16.6	14.6	12.8	13.8	12.3	11.9	12.0	8.3	7.3	7.7
12	17.1	15.7	16.7	13.7	10.8	12.2	14.1	12.4	13.0	8.4	8.1	8.3
13	17.0	14.3	15.0	11.6	10.8	11.1	13.1	12.1	12.6	8.7	7.9	8.2
14	16.9	13.9	15.2	13.2	11.5	12.6	13.5	12.0	12.6	---	---	---
15	14.1	12.5	13.4	13.2	12.0	12.7	13.5	11.2	11.7	---	---	---
16	14.9	12.3	13.2	12.4	10.4	11.7	11.5	10.1	10.9	---	---	---
17	16.9	14.9	16.2	10.9	10.1	10.5	10.5	10.0	10.3	8.9	8.6	8.8
18	16.8	15.0	16.2	12.7	10.7	11.8	10.1	9.4	9.9	9.4	8.3	8.7
19	16.3	14.2	15.5	14.2	11.9	12.8	9.6	8.9	9.4	10.0	9.0	9.6
20	15.4	11.2	13.6	13.5	12.0	12.9	9.9	8.6	9.5	9.4	8.9	9.1
21	12.4	10.9	11.7	14.6	11.4	12.9	10.3	9.1	9.8	9.2	8.0	8.8
22	12.0	11.1	11.5	13.7	11.7	12.7	9.7	8.7	9.3	---	---	---
23	12.8	11.5	12.2	12.6	10.4	11.3	8.9	8.0	8.5	---	---	---
24	14.1	11.8	13.0	11.4	10.5	10.9	8.7	7.6	8.1	---	---	---
25	14.5	12.7	13.5	10.9	9.7	10.1	9.2	7.7	8.6	9.5	9.0	9.4
26	13.5	12.3	12.9	10.4	9.3	9.7	9.0	7.7	8.3	10.6	10.0	10.3
27	15.2	13.5	14.2	10.8	9.7	10.2	10.5	8.8	9.8	11.2	10.8	11.0
28	15.7	12.7	14.0	11.3	10.4	10.7	10.8	10.2	10.6	11.6	11.2	11.4
29	---	---	---	11.1	10.6	10.8	10.9	10.2	10.6	11.8	11.1	11.6
30	---	---	---	11.1	10.7	10.9	11.1	9.8	10.7	11.7	8.7	9.8
31	---	---	---	11.3	10.9	11.1	---	---	---	9.1	7.7	8.4
MONTH	18.6	10.9	14.1	15.2	9.3	12.0	14.1	7.6	10.8	11.8	6.7	9.1

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.7	7.8	8.3	6.6	6.3	6.5	7.1	5.9	6.5	7.3	6.1	6.8
2	8.5	7.9	8.2	6.5	6.2	6.4	6.3	5.2	5.8	6.8	6.0	6.4
3	8.7	7.9	8.3	6.7	6.2	6.5	---	---	---	6.6	5.4	6.0
4	8.7	8.0	8.4	6.9	6.1	6.4	6.8	6.0	6.4	7.2	5.4	6.2
5	8.8	8.0	8.3	6.9	6.6	6.8	6.6	6.0	6.3	6.3	4.7	5.4
6	8.6	7.5	8.0	7.2	6.8	6.9	7.1	6.0	6.6	6.3	5.5	6.0
7	8.1	7.2	7.6	7.2	6.5	6.9	7.1	6.1	6.5	6.7	5.4	6.1
8	8.6	7.6	8.3	7.0	6.4	6.7	7.0	6.0	6.5	6.8	6.3	6.6
9	7.9	7.1	7.5	6.9	6.3	6.6	6.2	5.7	6.0	7.4	6.1	6.6
10	7.4	6.1	6.7	6.9	6.3	6.6	7.1	5.6	6.3	7.4	6.3	6.9
11	7.3	6.0	6.7	6.7	6.3	6.5	6.7	5.5	6.2	7.4	6.5	6.9
12	8.7	6.6	7.8	7.2	6.6	7.0	6.8	5.8	6.3	7.3	6.2	6.8
13	---	---	---	7.3	6.6	7.0	6.8	5.7	6.3	7.4	6.6	7.0
14	---	---	---	7.2	6.5	6.8	6.9	5.8	6.4	7.0	6.0	6.4
15	---	---	---	6.8	6.1	6.3	6.4	5.4	5.8	6.7	6.0	6.3
16	---	---	---	7.6	6.2	6.9	6.4	5.4	5.9	6.1	5.4	5.8
17	---	---	---	7.5	6.6	6.9	7.1	6.2	6.6	7.1	6.0	6.6
18	---	---	---	7.8	6.3	7.1	6.3	6.0	6.2	7.0	6.3	6.6
19	7.0	5.0	5.8	8.0	6.3	7.2	6.0	5.4	5.6	7.1	6.6	6.8
20	5.3	4.6	4.8	7.5	6.4	6.9	6.1	5.2	5.7	7.9	6.9	7.3
21	6.2	4.7	5.3	6.6	5.5	6.1	6.6	5.8	6.2	8.1	7.3	7.6
22	5.9	4.7	5.0	7.2	5.4	6.2	6.6	5.7	6.1	8.0	7.5	7.7
23	5.3	4.7	5.0	7.2	5.7	6.5	6.7	5.8	6.2	7.7	7.3	7.5
24	5.9	5.0	5.4	7.1	6.1	6.6	7.2	5.8	6.5	7.9	6.6	7.3
25	6.2	5.3	5.7	7.1	5.6	6.4	7.3	6.1	6.8	7.5	6.2	6.9
26	6.5	5.7	6.0	6.5	5.7	6.0	7.1	6.4	6.7	8.1	7.4	7.7
27	6.2	5.2	5.8	6.6	5.5	6.0	6.8	5.8	6.3	8.2	7.4	7.7
28	5.6	5.2	5.4	6.9	5.5	6.2	6.9	5.8	6.4	8.2	7.3	7.6
29	6.2	5.3	5.9	6.6	5.9	6.3	7.1	6.1	6.7	7.8	6.9	7.2
30	6.8	5.3	6.4	7.0	5.9	6.5	7.2	6.3	6.6	7.5	6.9	7.2
31	---	---	---	7.0	6.0	6.5	7.3	6.4	6.8	---	---	---
MONTH	8.8	4.6	6.7	8.0	5.4	6.6	7.3	5.2	6.3	8.2	4.7	6.8
YEAR	18.6	4.3	9.3									

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	14.0	14.5	8.5	7.0	8.0	3.0	2.0	2.5	2.5	1.5	2.0
2	14.5	13.0	14.0	8.5	8.0	8.0	3.0	2.5	2.5	2.0	1.5	1.5
3	14.5	12.5	13.5	10.5	8.5	9.5	3.5	1.5	2.5	1.5	0.5	1.0
4	15.0	13.0	14.0	9.0	8.0	8.5	3.0	2.0	2.5	2.0	0.5	1.0
5	15.0	13.5	14.0	8.0	7.0	7.5	2.0	1.5	2.0	3.5	2.0	2.5
6	16.0	13.5	14.5	7.5	6.5	7.0	3.0	2.0	2.5	2.5	0.0	1.0
7	15.5	15.5	15.5	7.0	5.5	6.5	3.0	1.0	2.0	0.5	0.5	0.5
8	15.5	14.0	14.5	8.0	6.5	7.5	1.0	0.0	0.5	0.5	0.5	0.5
9	14.0	12.0	13.0	8.0	7.0	7.0	2.5	1.0	2.0	0.5	0.5	0.5
10	12.0	10.5	11.0	7.5	6.5	7.0	2.5	2.0	2.0	1.0	0.5	0.5
11	11.5	9.5	10.5	7.0	7.0	7.0	3.0	1.5	2.5	0.5	0.5	0.5
12	11.5	10.5	11.0	7.5	6.5	7.0	1.5	0.5	1.0	0.5	0.0	0.5
13	12.0	10.5	11.0	8.5	7.5	8.0	2.5	0.5	2.0	0.5	0.0	0.5
14	11.5	9.5	10.5	8.5	6.0	7.5	3.0	2.0	2.5	1.0	0.0	0.5
15	11.0	10.0	10.5	6.0	3.0	4.5	2.0	0.0	1.5	1.0	0.5	0.5
16	10.0	9.0	9.5	3.5	2.5	3.0	0.5	0.0	0.5	1.0	0.5	0.5
17	10.5	9.0	9.5	3.5	2.0	3.0	1.0	0.0	0.0	1.0	0.5	0.5
18	10.0	8.5	9.0	4.0	2.5	3.0	0.0	0.0	0.0	1.5	0.5	1.0
19	9.5	7.5	8.5	3.5	3.0	3.5	0.5	0.0	0.5	2.0	1.0	1.5
20	7.5	6.5	7.0	5.5	3.5	4.5	1.5	0.5	1.0	2.0	0.0	1.5
21	7.0	5.5	6.5	4.5	3.5	4.0	1.5	0.5	1.0	2.5	0.0	0.5
22	7.5	6.5	7.0	3.5	2.0	2.5	2.0	1.0	1.5	1.0	0.0	0.5
23	9.5	7.5	8.5	2.0	0.5	1.0	2.0	1.5	1.5	2.0	1.0	1.5
24	11.5	9.0	10.0	2.0	0.5	1.5	3.0	2.0	2.5	1.5	1.0	1.5
25	11.0	10.0	10.5	3.0	2.0	2.5	3.5	2.5	3.0	1.5	0.5	1.0
26	10.5	9.5	10.0	6.5	3.0	5.0	3.5	3.0	3.5	2.5	0.5	1.5
27	10.0	8.5	9.5	5.0	4.5	5.0	4.0	3.0	3.5	2.5	1.5	2.0
28	10.0	9.5	9.5	5.0	4.0	4.5	3.0	2.0	2.5	2.5	1.5	2.0
29	10.5	10.0	10.5	5.0	4.0	4.5	2.0	1.0	1.5	1.5	0.0	0.5
30	10.5	9.5	10.0	4.0	3.0	3.0	1.0	0.5	1.0	0.0	0.0	0.0
31	9.0	7.5	8.0	---	---	---	1.5	1.0	1.0	0.0	0.0	0.0
MONTH	16.0	5.5	11.0	10.5	0.5	5.5	4.0	0.0	2.0	3.5	0.0	1.0

		FEBRUARY			MARCH			APRIL			MAY	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	---	---	---	7.5	6.5	7.0	16.0	10.0	13.5
2	0.5	0.0	0.5	5.0	4.0	4.5	7.5	7.0	7.5	17.5	13.0	15.5
3	1.0	0.5	0.5	5.0	2.5	4.0	7.0	6.0	6.5	18.5	15.5	17.5
4	1.0	0.0	0.5	3.0	2.5	3.0	6.0	5.0	5.5	18.0	14.5	16.5
5	2.5	0.5	1.5	5.0	2.0	3.5	6.0	4.5	5.0	14.5	12.5	13.5
6	2.0	0.5	1.5	4.0	2.5	3.0	6.0	4.0	5.0	13.0	11.0	12.0
7	3.0	1.5	2.0	3.0	2.5	2.5	7.5	4.0	6.0	14.5	11.0	12.5
8	3.5	3.0	3.0	3.5	3.0	3.0	7.0	5.5	6.5	14.0	13.0	13.5
9	3.0	0.5	1.5	3.5	2.0	3.0	8.0	5.0	6.5	14.0	12.0	12.5
10	0.5	0.0	0.0	3.5	1.5	2.5	8.0	6.5	7.0	14.5	11.5	13.0
11	0.5	0.0	0.0	3.0	2.0	2.5	6.5	5.0	5.5	16.5	14.0	15.0
12	0.5	0.0	0.0	5.5	2.5	4.0	5.5	3.0	4.5	15.5	13.5	14.5
13	0.5	0.0	0.0	7.0	5.0	6.0	6.5	4.0	5.0	14.0	13.0	13.5
14	1.0	0.0	0.5	5.5	3.5	4.5	7.0	3.5	5.5	---	---	---
15	2.0	1.0	1.5	5.0	3.5	4.5	9.0	4.5	7.0	---	---	---
16	2.0	0.5	1.5	6.0	4.5	5.5	12.0	6.5	9.5	---	---	---
17	1.0	0.0	0.5	6.5	5.0	6.0	12.0	9.0	10.5	14.5	12.0	13.0
18	1.0	0.0	0.5	5.0	3.5	4.5	14.0	10.5	12.5	13.0	10.5	12.0
19	1.0	0.0	0.5	4.5	2.5	3.5	16.0	12.5	14.0	11.5	9.0	10.5
20	3.0	0.5	1.5	4.5	3.5	4.0	15.5	12.0	14.0	11.0	10.5	10.5
21	3.0	2.0	3.0	5.0	2.5	4.0	14.0	11.0	13.0	11.5	10.0	10.5
22	3.5	2.5	3.0	4.5	3.5	4.0	16.0	12.0	14.0	12.0	11.5	12.0
23	2.5	2.0	2.0	6.0	3.5	4.5	18.5	15.5	17.5	12.5	10.5	11.5
24	---	---	---	6.0	4.5	5.5	18.5	17.0	17.5	15.0	10.5	13.0
25	---	---	---	7.5	5.0	6.5	17.0	15.0	16.0	14.5	12.5	14.0
26	---	---	---	8.0	6.0	7.0	17.0	12.0	14.5	12.5	11.5	12.0
27	---	---	---	8.5	6.0	7.5	12.5	8.5	10.5	12.5	10.5	11.5
28	---	---	---	8.0	6.0	7.0	10.0	8.0	9.0	12.0	10.5	11.0
29	---	---	---	7.5	6.5	7.0	9.5	8.5	9.0	16.0	11.0	13.5
30	---	---	---	7.5	6.5	7.0	12.5	7.5	10.0	18.5	14.5	16.5
31	---	---	---	7.0	6.0	6.5	---	---	---	21.0	16.5	18.5
MONTH	3.5	0.0	1.0	8.5	1.5	4.5	18.5	3.0	9.5	21.0	9.0	13.5

01183600 WESTFIELD RIVER AT WEST SPRINGFIELD, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	16.5	18.5	21.5	18.5	20.0	26.0	24.5	25.5	22.0	19.0	21.0
2	19.5	16.0	17.0	23.0	20.0	21.5	25.0	21.0	24.0	26.5	21.5	24.0
3	18.5	15.5	17.0	23.0	18.5	21.5	24.5	20.0	22.0	27.5	25.0	26.0
4	17.5	15.5	16.5	21.0	18.0	20.0	24.0	21.5	23.0	29.0	26.0	27.5
5	18.5	16.5	17.5	20.0	18.5	19.5	25.5	22.0	24.0	28.0	20.5	25.0
6	19.5	15.5	17.5	20.5	18.5	19.5	24.5	22.5	23.5	21.5	20.0	21.0
7	21.5	17.5	19.5	22.5	19.5	21.0	26.0	23.5	24.5	23.0	20.5	21.5
8	22.0	16.0	19.0	23.5	20.0	22.0	26.5	24.0	25.0	21.0	19.0	20.0
9	24.0	21.0	22.5	24.5	22.0	23.0	27.0	24.0	25.5	21.0	18.5	20.0
10	25.5	22.5	23.5	24.5	19.5	22.0	28.5	25.0	26.5	20.0	17.0	18.5
11	27.0	22.5	24.5	24.0	19.0	21.5	27.5	26.0	26.5	20.0	17.0	18.5
12	---	---	---	21.0	17.5	19.0	26.5	24.5	25.5	20.0	18.0	19.0
13	---	---	---	21.5	17.5	20.0	26.0	23.5	24.5	20.0	17.0	18.5
14	---	---	---	23.5	20.0	22.0	25.0	20.5	23.5	18.0	16.5	17.5
15	---	---	---	22.5	20.5	21.5	24.0	21.5	22.5	17.5	16.0	16.5
16	---	---	---	23.0	19.0	21.0	22.0	20.5	21.0	17.5	15.5	16.5
17	---	---	---	22.5	21.0	22.0	22.0	19.0	20.5	18.5	15.5	17.0
18	---	---	---	24.0	20.5	22.5	22.0	20.0	21.0	17.0	15.5	16.5
19	20.0	18.5	19.5	23.5	21.0	22.5	23.0	20.5	21.5	17.5	14.5	16.0
20	21.5	19.0	20.5	24.0	21.5	23.0	22.5	20.5	21.5	17.0	14.5	16.0
21	22.0	19.5	21.0	23.0	18.5	20.5	23.0	19.5	21.5	16.5	14.5	15.5
22	22.0	21.5	22.0	23.5	19.5	21.5	21.5	20.5	21.0	15.0	13.0	13.5
23	22.0	20.5	21.5	24.5	21.0	22.5	22.0	19.0	20.0	16.5	13.5	15.0
24	24.0	20.5	22.0	25.0	21.0	23.0	20.5	18.5	19.5	15.5	15.0	15.5
25	25.0	22.0	23.0	25.0	21.5	23.5	20.0	17.0	18.5	17.0	14.5	15.5
26	24.5	22.0	23.5	24.0	21.5	22.5	22.5	18.0	20.0	17.0	14.0	15.5
27	23.0	22.0	22.5	22.0	21.0	21.5	23.5	21.0	22.5	18.5	15.0	16.5
28	21.5	20.5	21.0	23.0	20.5	22.0	23.0	19.0	20.0	19.5	17.0	18.0
29	21.0	20.0	20.5	24.5	22.5	23.5	22.5	18.0	20.5	18.5	16.5	17.5
30	20.5	19.0	19.5	25.5	22.0	24.0	24.0	19.0	21.5	17.5	16.0	17.0
31	---	---	---	26.5	23.5	25.0	23.5	19.5	21.0	---	---	---
MONTH	---	---	---	26.5	17.5	22.0	28.5	17.0	22.5	29.0	13.0	18.5
YEAR	29.0	0.0	11.0									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.

LOCATION.--Lat 42°02'57", long 72°36'35", Hampden County, multiple-parameter monitor on right bank at Agawam, Mass., 1.4 mi (2.3 km) upstream from Massachusetts-Connecticut State line, and 4.5 mi (7.2 km) upstream from gaging station at Thompsonville, Conn.

DRAINAGE AREA.--9,661 mi² (25,022 km²) at gage at Thompsonville, Conn.

PERIOD OF RECORD.--Chemical analyses: January 1969 to current year.
Water temperatures: January 1969 to current year.
Prior to October 1971, published as 01184000 Connecticut River at Thompsonville, Conn.

EXTREMES.--Current year:
Specific conductance: Maximum, 268 micromhos Feb. 3; minimum, 61 micromhos Nov. 27, May 21.
pH: Maximum, 8.2 Sept. 13; minimum, 6.5 Apr. 17, 18, Aug. 28.
Dissolved oxygen: Maximum recorded, 15.2 mg/l Mar. 11; minimum, 2.7 mg/l Sept. 7.
Water temperatures: Maximum recorded, 31.0°C Sept. 3; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 268 micromhos Feb. 3, 1973; minimum, 49 micromhos Apr. 23, 1969.
pH: Maximum, 9.7 Aug. 9, 1970; minimum, 5.8 Oct. 26, 1971.
Dissolved oxygen: Maximum, 15.9 mg/l Feb. 17, 1971; minimum, 1.0 mg/l Aug. 20, 1971.
Water temperatures: Maximum, 31.5°C Aug. 16, 1970; minimum, freezing point on several days during winter periods.

REMARKS.--Figures of daily discharge for gaging station at Thompsonville, Conn. (sta 01184000) are used for this site. Samples for previously published monthly chemical analyses were taken at gaging station at Thompsonville. Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	157	149	152	137	135	136	101	79	95	172	93	135
2	154	147	150	141	137	140	98	83	89	89	76	82
3	156	147	152	140	134	138	91	86	88	76	71	73
4	158	154	156	135	109	117	95	90	91	108	71	84
5	156	150	153	120	107	113	117	99	113	120	108	114
6	153	143	147	127	118	121	117	97	107	119	93	102
7	153	139	147	125	117	121	89	68	73	112	99	106
8	---	---	---	122	112	120	90	68	74	114	109	111
9	---	---	---	112	68	89	107	88	101	124	109	113
10	---	---	---	86	67	75	96	81	85	135	117	126
11	---	---	---	91	85	87	82	77	79	125	112	120
12	---	---	---	97	91	95	88	80	84	116	112	114
13	147	144	146	94	91	92	124	85	100	121	115	116
14	147	141	145	94	90	92	120	94	101	131	121	125
15	142	136	140	106	92	97	96	90	93	135	127	130
16	141	137	139	93	89	91	102	91	95	137	121	132
17	141	137	139	100	91	96	110	101	106	124	115	120
18	144	122	137	101	98	99	113	108	110	117	112	115
19	---	---	---	106	101	104	108	101	104	119	112	115
20	134	128	131	110	92	104	110	101	104	119	89	107
21	136	129	132	87	72	79	106	102	104	87	82	85
22	140	135	137	85	80	83	173	105	138	87	82	85
23	148	140	144	89	80	84	168	112	129	85	77	80
24	145	139	142	94	83	88	113	108	111	77	74	75
25	142	128	138	100	94	97	110	108	109	84	72	78
26	137	130	134	99	67	93	115	109	112	87	84	85
27	139	133	135	71	61	66	116	112	113	87	82	84
28	141	137	140	65	63	64	118	113	116	89	84	86
29	142	137	140	72	65	69	121	116	118	90	87	88
30	143	136	140	78	71	74	128	119	121	95	88	91
31	142	136	139	---	---	---	174	131	154	97	94	95
MONTH	158	122	142	141	61	97	174	68	104	172	71	102

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	100	97	98	135	126	129	---	---	---	---	---	---
2	236	98	148	139	127	132	---	---	---	---	---	---
3	268	87	147	131	125	128	---	---	---	---	---	---
4	87	77	82	144	124	129	---	---	---	96	94	96
5	76	74	75	131	102	114	---	---	---	101	94	97
6	81	72	76	103	87	92	---	---	---	100	97	98
7	87	80	83	91	87	89	---	---	---	100	98	99
8	95	85	90	97	91	93	---	---	---	103	99	100
9	95	90	93	88	75	78	---	---	---	106	103	105
10	103	89	96	79	74	76	---	---	---	106	91	100
11	112	104	108	80	78	79	---	---	---	92	72	88
12	116	109	112	84	80	82	---	---	---	76	69	73
13	111	103	108	82	71	76	87	86	87	79	77	77
14	113	106	110	71	67	69	95	84	90	86	79	83
15	132	106	120	75	71	73	101	95	98	90	83	87
16	141	107	120	76	73	75	102	99	100	91	79	86
17	118	107	113	74	68	72	110	97	104	78	71	74
18	122	117	121	68	63	66	106	101	105	77	73	75
19	131	118	122	67	63	65	105	192	104	72	67	68
20	134	122	127	---	---	---	104	94	99	75	68	72
21	125	120	123	---	---	---	96	94	95	79	61	72
22	138	121	127	---	---	---	95	93	94	67	64	65
23	128	121	125	---	---	---	---	---	---	72	66	69
24	125	120	122	---	---	---	---	---	---	74	70	71
25	129	118	123	---	---	---	---	---	---	77	74	75
26	186	130	146	---	---	---	---	---	---	84	76	80
27	153	132	144	---	---	---	---	---	---	87	83	85
28	132	126	128	---	---	---	---	---	---	87	84	86
29	---	---	---	---	---	---	---	---	---	90	84	88
30	---	---	---	---	---	---	---	---	---	86	79	83
31	---	---	---	---	---	---	---	---	---	90	84	87
MONTH	268	72	114	---	---	---	---	---	---	106	61	84

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	92	84	88	---	---	---	148	145	147	151	148	149
2	96	90	92	---	---	---	151	136	145	164	150	156
3	99	94	96	---	---	---	137	109	126	177	159	162
4	103	99	100	---	---	---	120	108	116	168	160	163
5	113	102	107	---	---	---	124	119	121	162	158	160
6	110	102	107	---	---	---	128	121	125	162	149	154
7	103	100	101	---	---	---	125	120	123	156	142	148
8	104	98	102	---	---	---	129	122	127	147	142	144
9	108	103	107	---	---	---	128	119	123	147	138	141
10	121	106	113	---	---	---	125	120	123	152	140	147
11	126	119	122	---	---	---	129	122	126	147	139	143
12	120	103	112	---	---	---	133	130	131	154	142	146
13	110	100	106	---	---	---	---	---	---	152	145	149
14	113	104	109	---	---	---	---	---	---	155	147	150
15	107	100	102	---	---	---	138	135	136	154	147	150
16	116	106	111	---	---	---	139	136	138	156	148	150
17	119	114	116	---	---	---	141	136	138	163	152	158
18	119	110	114	134	124	130	146	139	141	154	139	146
19	119	107	113	134	130	133	150	141	146	145	140	142
20	110	103	107	140	133	137	150	141	145	147	141	144
21	113	101	109	139	133	135	152	147	150	149	145	147
22	110	95	103	148	134	141	153	148	150	150	145	147
23	113	106	110	148	138	142	152	146	149	150	147	148
24	110	106	108	153	138	145	151	146	149	149	141	145
25	107	102	105	159	145	151	147	138	143	142	136	140
26	114	105	108	151	145	147	156	144	146	146	141	143
27	116	104	113	147	140	145	155	149	152	143	140	141
28	121	115	118	146	141	143	153	144	148	147	140	143
29	133	102	115	146	140	142	146	139	142	152	144	148
30	101	90	96	148	141	144	146	141	143	149	145	146
31	---	---	---	148	144	145	151	144	147	---	---	---
MONTH	133	84	107	---	---	---	156	108	138	177	136	148
YEAR	268	61	114									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	7.0	7.0	7.0	---	---	---	6.9	6.8	6.9
2	7.0	6.8	6.9	7.0	7.0	7.0	---	---	---	7.2	6.8	6.9
3	7.0	6.8	6.9	7.0	6.9	7.0	---	---	---	6.9	6.8	6.8
4	7.0	6.8	6.9	7.1	7.0	7.0	---	---	---	6.8	6.8	6.8
5	6.9	6.7	6.8	7.1	6.9	7.0	---	---	---	6.9	6.8	6.8
6	7.1	6.7	6.9	7.2	7.1	7.1	---	---	---	6.8	6.8	6.8
7	6.9	6.8	6.8	7.2	7.1	7.2	---	---	---	6.8	6.7	6.7
8	---	---	---	7.2	7.1	7.1	7.2	6.9	7.0	6.9	6.7	6.8
9	---	---	---	7.2	6.9	7.0	7.2	7.1	7.1	6.9	6.6	6.8
10	---	---	---	7.2	7.0	7.1	7.1	7.0	7.0	6.8	6.6	6.7
11	---	---	---	7.3	7.2	7.2	7.1	7.0	7.0	6.8	6.7	6.8
12	---	---	---	7.3	7.2	7.3	7.1	7.0	7.1	7.0	6.9	6.9
13	7.2	7.0	7.1	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.9	6.9
14	7.3	7.0	7.2	7.2	7.1	7.2	7.0	7.0	7.0	6.9	6.8	6.9
15	7.2	7.0	7.0	7.2	7.1	7.2	7.1	7.0	7.0	6.9	6.8	6.9
16	7.2	7.0	7.1	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.8	6.9
17	7.3	7.1	7.1	7.2	7.2	7.2	7.1	6.9	7.0	7.0	7.0	7.0
18	---	---	---	---	---	---	7.2	6.9	7.1	7.0	7.0	7.0
19	---	---	---	---	---	---	7.2	7.1	7.2	7.1	7.1	7.1
20	7.2	7.0	7.1	---	---	---	7.2	7.1	7.1	7.1	7.1	7.1
21	7.1	7.0	7.1	---	---	---	7.2	7.0	7.1	7.2	7.1	7.2
22	7.1	7.0	7.0	---	---	---	7.0	7.0	7.0	7.2	7.1	7.1
23	7.0	6.9	6.9	---	---	---	7.0	6.9	6.9	7.1	7.0	7.1
24	6.9	6.8	6.8	---	---	---	7.0	6.9	7.0	7.1	6.8	6.9
25	6.9	6.7	6.8	---	---	---	7.0	6.9	7.0	6.9	6.8	6.8
26	6.9	6.8	6.9	---	---	---	7.0	6.9	6.9	6.9	6.8	6.8
27	6.9	6.7	6.8	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8
28	6.8	6.8	6.8	---	---	---	6.9	6.8	6.9	6.8	6.8	6.8
29	6.8	6.7	6.8	---	---	---	7.0	6.9	6.9	6.9	6.8	6.8
30	6.9	6.7	6.8	---	---	---	7.0	6.9	6.9	6.9	6.8	6.8
31	7.0	6.9	7.0	---	---	---	6.9	6.9	6.9	6.9	6.8	6.8
MONTH	---	---	---	---	---	---	---	---	---	7.2	6.6	6.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.8	6.8	6.7	6.7	---	---	---	---	---	---
2	6.9	6.7	6.9	6.9	6.7	6.7	---	---	---	---	---	---
3	6.9	6.7	6.8	6.8	6.7	6.7	---	---	---	---	---	---
4	6.9	6.8	6.9	6.8	6.7	6.8	---	---	---	7.1	7.0	7.1
5	6.9	6.9	6.9	6.8	6.8	6.8	---	---	---	7.1	6.9	6.9
6	6.9	6.9	6.9	6.8	6.8	6.8	---	---	---	7.1	7.0	7.1
7	7.0	6.9	6.9	6.9	6.9	6.9	---	---	---	7.1	7.0	7.1
8	7.0	6.9	6.9	7.0	6.9	7.3	---	---	---	7.1	7.0	7.0
9	7.1	6.9	7.0	7.0	7.0	7.0	---	---	---	7.0	7.0	7.0
10	7.0	6.9	6.9	7.1	7.0	7.0	---	---	---	7.1	7.0	7.1
11	6.9	6.8	6.9	7.1	7.0	7.1	---	---	---	7.1	7.0	7.0
12	7.0	6.8	6.9	7.1	7.0	7.1	---	---	---	7.2	7.0	7.1
13	7.0	6.8	6.9	7.1	7.0	7.0	7.1	7.0	7.1	7.1	7.0	7.1
14	6.9	6.8	6.9	7.0	6.9	7.0	7.1	7.1	7.1	7.1	7.0	7.1
15	6.9	6.9	6.9	7.0	7.0	7.0	7.1	7.0	7.1	7.1	7.0	7.0
16	7.0	6.9	7.0	7.1	6.9	6.9	7.1	6.6	6.9	7.0	6.9	7.0
17	7.0	6.9	6.9	6.9	6.7	6.8	6.6	6.5	6.6	7.1	7.0	7.0
18	7.0	6.9	7.0	6.8	6.7	6.7	7.2	6.5	6.8	7.1	6.9	7.0
19	7.0	6.9	7.0	6.8	6.7	6.7	7.2	7.1	7.2	7.1	6.9	7.0
20	7.0	7.0	7.0	---	---	---	7.2	7.1	7.2	7.0	6.9	7.0
21	7.0	7.0	7.0	---	---	---	---	---	---	7.0	6.9	6.9
22	7.0	6.9	7.0	---	---	---	---	---	---	7.1	7.0	7.1
23	7.1	6.9	7.0	---	---	---	---	---	---	7.1	7.0	7.1
24	6.9	6.8	6.8	---	---	---	---	---	---	7.1	7.1	7.1
25	6.8	6.7	6.8	---	---	---	---	---	---	7.1	6.9	7.0
26	6.7	6.6	6.7	---	---	---	---	---	---	7.0	6.8	6.9
27	6.8	6.7	6.7	---	---	---	---	---	---	7.0	6.8	6.9
28	6.8	6.7	6.8	---	---	---	---	---	---	6.9	6.8	6.8
29	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
30	---	---	---	---	---	---	---	---	---	6.9	6.7	6.8
31	---	---	---	---	---	---	---	---	---	6.9	6.8	6.8
MONTH	7.1	6.6	6.9	---	---	---	---	---	---	7.2	6.7	7.0

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.9	---	---	---	7.1	6.8	7.0	7.1	6.8	6.9
2	6.9	6.8	6.9	---	---	---	6.9	6.8	6.9	7.2	6.8	6.9
3	6.9	6.7	6.8	---	---	---	7.0	6.8	6.9	7.4	6.7	6.9
4	6.9	6.8	6.8	---	---	---	7.0	6.8	6.9	7.0	6.6	6.8
5	6.8	6.6	6.7	---	---	---	6.9	6.8	6.8	7.1	6.8	7.0
6	6.7	6.6	6.6	---	---	---	6.9	6.7	6.8	7.1	6.8	7.0
7	6.9	6.6	6.7	---	---	---	7.0	6.7	6.9	7.0	6.8	6.9
8	7.0	6.7	6.8	---	---	---	7.0	6.7	6.8	7.0	6.7	6.9
9	7.0	6.9	6.9	---	---	---	6.8	6.6	6.7	7.3	6.8	6.9
10	6.9	6.6	6.8	---	---	---	6.8	6.6	6.7	7.5	6.8	7.0
11	6.7	6.6	6.6	---	---	---	6.9	6.7	6.8	7.5	6.8	7.1
12	6.7	6.6	6.7	---	---	---	7.1	6.6	6.8	7.3	6.9	7.1
13	6.7	6.6	6.6	---	---	---	---	---	---	8.2	6.9	7.4
14	6.7	6.7	6.7	---	---	---	---	---	---	7.2	7.0	7.1
15	6.8	6.6	6.7	---	---	---	6.9	6.7	6.8	7.0	6.8	6.9
16	6.9	6.7	6.8	---	---	---	6.9	6.7	6.8	7.2	6.8	7.0
17	6.8	6.7	6.8	---	---	---	7.1	6.8	7.0	7.0	6.8	6.9
18	6.9	6.8	6.8	6.9	6.7	6.8	7.2	6.8	7.0	7.2	6.7	6.9
19	7.1	6.9	7.0	6.9	6.8	6.8	7.2	6.8	6.9	7.2	6.8	7.0
20	7.0	6.9	7.0	6.9	6.8	6.8	7.2	6.7	6.9	7.3	6.9	7.1
21	6.9	6.8	6.8	6.9	6.8	6.8	7.3	6.9	7.0	7.3	7.0	7.1
22	6.9	6.8	6.8	6.8	6.7	6.8	7.2	6.7	6.9	7.1	6.9	7.0
23	6.8	6.7	6.8	6.8	6.6	6.7	7.4	6.7	7.0	7.0	6.9	6.9
24	6.9	6.8	6.8	7.0	6.7	6.8	7.4	6.8	7.0	7.0	6.8	6.9
25	6.9	6.8	6.8	7.2	6.7	6.9	7.2	6.7	6.9	7.0	6.9	6.9
26	6.8	6.8	6.8	6.9	6.7	6.8	7.0	6.7	6.9	6.9	6.8	6.9
27	6.8	6.7	6.7	6.9	6.7	6.8	6.9	6.6	6.7	6.9	6.7	6.8
28	6.8	6.7	6.7	7.0	6.7	6.9	6.8	6.5	6.7	6.9	6.7	6.8
29	6.9	6.8	6.8	6.9	6.7	6.9	6.9	6.6	6.8	6.9	6.7	6.8
30	6.9	6.8	6.9	7.0	6.7	6.8	7.1	6.7	6.9	6.8	6.6	6.7
31	---	---	---	7.2	6.7	7.0	7.0	6.7	6.8	---	---	---
MONTH	7.1	6.6	6.8	---	---	---	7.4	6.5	6.9	8.2	6.6	7.0
YEAR	8.2	6.5	6.9									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.4	3.2	4.5	9.5	8.9	9.1	13.2	12.6	12.8	13.4	12.6	13.0
2	6.6	4.3	5.6	9.9	9.6	9.7	12.9	12.6	12.7	13.6	13.1	13.3
3	6.5	5.4	6.0	9.8	9.0	9.4	13.0	12.5	12.8	14.1	13.3	13.7
4	6.7	4.9	5.7	9.9	9.3	9.6	13.0	12.6	12.8	14.1	13.2	13.8
5	6.2	3.2	5.0	10.6	9.9	10.4	13.4	13.0	13.2	13.3	12.0	12.7
6	5.8	4.0	5.2	10.6	10.1	10.4	13.2	12.2	12.7	13.8	12.0	12.8
7	5.3	3.8	4.4	10.5	10.2	10.3	13.7	12.8	13.2	13.8	13.2	13.5
8	---	---	---	10.6	10.1	10.3	14.6	13.1	14.1	13.5	13.1	13.4
9	---	---	---	11.3	10.3	10.8	14.7	12.5	13.7	13.5	12.6	13.2
10	---	---	---	11.6	10.9	11.3	12.6	12.4	12.5	12.9	12.2	12.6
11	---	---	---	11.1	10.8	11.0	13.0	12.4	12.7	13.1	12.5	12.7
12	---	---	---	11.2	10.9	11.1	13.3	12.4	12.9	13.2	12.7	12.9
13	7.5	7.2	7.3	10.9	10.4	10.6	14.0	12.5	13.1	13.4	12.8	13.2
14	8.9	7.3	8.1	10.7	10.1	10.3	12.9	12.0	12.4	13.5	12.6	13.1
15	8.8	7.5	8.2	11.9	10.6	11.2	13.6	12.2	12.7	13.2	12.0	12.6
16	9.4	8.0	8.7	12.4	11.8	12.2	13.3	12.7	13.1	13.0	11.8	12.5
17	9.2	8.5	8.7	12.3	11.7	12.0	13.0	12.3	12.6	13.3	12.1	12.8
18	9.7	8.5	9.0	12.4	11.7	12.1	12.9	12.1	12.5	13.5	11.8	12.5
19	---	---	---	12.5	11.7	12.0	13.0	12.5	12.8	13.4	11.8	12.6
20	9.1	8.7	8.9	12.0	11.3	11.7	12.8	12.1	12.4	13.5	12.0	12.8
21	9.3	8.7	9.0	12.6	11.8	12.2	12.7	12.4	12.6	13.7	13.1	13.4
22	9.0	8.5	8.7	13.3	12.2	13.0	12.9	11.8	12.3	14.0	13.4	13.7
23	8.5	7.7	8.1	14.1	12.8	13.3	12.3	12.0	12.2	13.7	12.6	13.3
24	7.9	6.8	7.1	14.3	12.5	13.3	12.3	11.7	12.0	13.8	13.2	13.4
25	7.7	6.6	7.1	13.0	12.4	12.7	12.0	11.7	11.8	14.2	13.4	13.8
26	8.3	7.5	7.8	12.8	11.4	12.2	12.2	11.7	11.9	14.2	13.1	13.7
27	7.8	7.4	7.6	12.4	11.8	12.1	12.3	11.9	12.1	13.5	12.5	13.0
28	7.6	7.1	7.4	13.2	12.5	12.9	12.4	11.8	12.1	13.1	12.4	12.7
29	7.4	6.8	7.1	13.0	12.5	12.7	12.7	12.0	12.4	14.1	12.8	13.7
30	8.4	6.9	7.6	13.4	12.6	13.2	13.4	12.8	13.1	14.1	13.6	13.8
31	9.2	8.5	9.0	---	---	---	13.8	13.3	13.6	14.3	13.6	13.9
MONTH	9.7	3.2	7.3	14.3	8.9	11.4	14.7	11.7	12.7	14.3	11.8	13.2

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.1	13.9	14.0	13.8	12.4	13.0	---	---	---	---	---	---
2	14.0	12.9	13.6	13.0	12.3	12.6	---	---	---	---	---	---
3	14.2	13.1	13.8	12.6	12.1	12.2	---	---	---	---	---	---
4	14.2	13.7	13.8	13.1	12.3	12.5	---	---	---	10.3	9.4	9.9
5	14.4	13.7	14.1	13.1	12.3	12.7	---	---	---	10.6	9.6	10.1
6	14.6	14.2	14.4	13.4	12.8	13.1	---	---	---	10.6	9.9	10.2
7	14.4	13.5	14.0	13.5	12.9	13.2	---	---	---	10.6	9.8	10.2
8	13.8	12.3	13.0	13.5	12.9	13.2	---	---	---	9.9	9.3	9.6
9	14.3	12.3	13.3	14.6	13.5	14.2	---	---	---	9.2	8.7	9.0
10	14.4	13.7	14.0	14.8	14.1	14.6	---	---	---	9.1	8.6	8.9
11	14.3	13.5	14.0	15.2	14.4	14.9	---	---	---	8.9	8.1	8.4
12	15.0	13.5	14.1	15.0	13.0	14.0	---	---	---	9.3	8.4	9.0
13	14.2	13.2	13.7	13.6	12.8	13.3	12.0	11.7	11.9	9.3	8.9	9.0
14	13.8	13.4	13.6	14.2	13.2	13.8	12.6	11.9	12.3	9.6	9.0	9.3
15	13.8	13.2	13.4	15.0	13.5	14.3	12.3	11.4	11.9	9.6	9.1	9.3
16	13.9	13.2	13.6	13.5	13.1	13.3	11.8	10.5	11.1	9.6	8.6	9.0
17	14.0	13.4	13.7	13.4	12.3	12.8	11.1	10.4	10.7	9.8	8.9	9.4
18	14.0	13.3	13.6	13.7	12.9	13.5	10.8	10.1	10.4	9.9	9.1	9.5
19	14.0	13.2	13.4	13.8	13.3	13.5	10.7	10.5	10.6	10.7	9.7	10.1
20	13.7	12.4	13.0	---	---	---	11.2	10.6	10.9	10.7	9.0	10.4
21	13.4	12.2	12.7	---	---	---	---	---	---	10.8	10.1	10.3
22	13.1	11.9	12.4	---	---	---	---	---	---	10.8	10.1	10.4
23	13.2	11.9	12.4	---	---	---	---	---	---	11.4	10.7	11.0
24	13.9	12.2	13.0	---	---	---	---	---	---	11.4	10.7	11.2
25	14.0	12.5	13.1	---	---	---	---	---	---	---	---	---
26	13.6	12.2	12.7	---	---	---	---	---	---	---	---	---
27	14.2	12.6	13.4	---	---	---	---	---	---	---	---	---
28	14.4	12.8	13.8	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	9.2	8.1	8.5
31	---	---	---	---	---	---	---	---	---	8.0	7.2	7.6
MONTH	15.0	11.9	13.5	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	7.2	7.4	---	---	---	6.0	5.5	5.8	6.3	5.8	6.0
2	7.4	7.0	7.3	---	---	---	6.3	5.6	5.9	5.8	5.4	5.6
3	7.2	6.9	7.1	---	---	---	6.6	6.1	6.3	5.3	4.7	5.1
4	7.6	7.0	7.2	---	---	---	6.5	6.0	6.2	5.0	4.5	4.7
5	7.7	7.2	7.5	---	---	---	6.4	5.8	6.0	4.3	4.1	4.2
6	7.5	7.1	7.3	---	---	---	6.2	5.5	5.8	4.1	3.9	4.0
7	7.6	7.3	7.4	---	---	---	6.2	5.4	5.8	3.9	2.7	3.4
8	8.3	7.5	7.9	---	---	---	6.0	5.4	5.7	4.2	3.1	3.4
9	8.1	7.2	7.7	---	---	---	6.1	5.4	5.8	4.9	3.6	4.3
10	7.7	7.0	7.3	---	---	---	6.3	5.5	5.9	5.1	4.0	4.6
11	7.7	6.6	7.0	---	---	---	6.3	6.0	6.2	5.4	4.1	4.8
12	7.5	6.7	7.1	---	---	---	7.2	5.9	6.5	5.5	4.9	5.3
13	7.3	6.7	6.9	---	---	---	7.1	5.6	6.5	5.7	4.9	5.4
14	7.2	6.9	7.0	---	---	---	6.5	5.5	6.0	5.8	5.4	5.7
15	7.4	7.2	7.3	---	---	---	6.0	5.3	5.6	6.0	5.5	5.7
16	7.4	7.1	7.3	---	---	---	6.7	6.1	6.5	6.1	5.3	5.8
17	7.3	6.8	7.1	---	---	---	6.6	5.9	6.2	6.7	5.9	6.3
18	7.8	7.2	7.4	6.0	5.7	5.9	6.6	6.0	6.1	6.9	6.5	6.7
19	8.2	7.8	7.9	5.9	5.6	5.8	7.1	6.1	6.5	6.9	6.3	6.7
20	8.2	7.7	8.0	5.9	5.7	5.8	6.9	6.3	6.5	7.0	6.6	6.7
21	7.8	7.0	7.3	5.9	5.8	5.8	7.1	6.5	6.7	7.0	6.4	6.7
22	7.4	7.1	7.3	6.0	5.7	5.9	7.3	6.8	7.0	7.2	6.6	6.9
23	7.3	7.0	7.1	5.9	5.4	5.7	7.6	7.0	7.4	7.1	6.9	7.0
24	7.0	6.9	7.0	5.9	5.4	5.7	7.7	7.1	7.5	6.7	6.4	6.5
25	6.9	6.8	6.8	5.9	5.4	5.7	7.7	7.1	7.6	6.8	6.2	6.4
26	7.0	6.7	6.8	6.0	5.7	5.9	7.8	7.1	7.6	6.7	6.2	6.5
27	6.6	6.6	6.6	6.0	5.4	5.6	7.7	7.3	7.6	6.7	6.2	6.5
28	6.7	6.4	6.5	6.2	5.5	5.8	7.7	6.7	6.9	6.7	6.2	6.5
29	6.6	6.3	6.4	6.1	5.7	5.9	7.4	6.7	6.9	6.7	6.1	6.4
30	6.3	6.2	6.2	6.1	5.0	5.6	7.3	6.6	6.9	6.6	6.3	6.5
31	---	---	---	6.1	4.6	5.4	7.5	6.0	6.8	---	---	---
MONTH	8.3	6.2	7.2	---	---	---	7.8	5.3	6.5	7.2	2.7	5.7
YEAR	15.2	2.7	9.8									

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	17.5	18.5	10.0	9.5	9.5	3.0	2.0	2.5	2.5	1.5	2.0
2	18.0	17.0	17.5	9.5	9.0	9.0	2.5	2.0	2.5	2.0	1.5	2.0
3	18.0	16.5	17.5	10.0	9.5	10.0	3.0	2.0	2.5	1.5	1.0	1.5
4	19.0	17.0	17.5	9.5	9.0	9.5	3.0	2.5	3.0	1.5	1.0	1.5
5	18.5	17.0	18.0	9.0	8.0	8.5	2.5	2.0	2.5	2.5	1.5	2.0
6	18.5	17.0	18.0	8.5	7.5	8.0	3.0	2.0	2.5	2.5	0.5	1.5
7	18.0	17.5	17.5	8.0	7.5	7.5	2.5	2.0	2.0	1.0	0.5	0.5
8	---	---	---	8.5	8.0	8.0	2.0	1.0	1.5	0.5	0.5	0.5
9	---	---	---	8.0	7.0	7.5	2.5	1.0	1.5	1.0	0.5	0.5
10	---	---	---	7.5	6.5	7.0	3.0	2.5	2.5	1.0	0.5	0.5
11	---	---	---	7.5	7.0	7.0	3.5	2.5	3.0	1.0	0.5	1.0
12	---	---	---	7.0	6.5	7.0	2.5	1.5	2.0	1.5	0.5	1.0
13	14.0	13.0	13.5	8.0	7.0	7.5	2.5	1.0	2.0	1.5	0.5	1.0
14	13.5	12.5	13.0	8.0	6.5	7.5	3.0	2.0	2.5	1.0	0.5	1.0
15	13.5	11.5	12.5	6.5	4.0	5.5	2.5	1.0	1.5	2.0	1.0	1.5
16	12.0	11.0	11.0	4.0	3.5	4.0	1.0	0.0	0.5	2.5	1.0	1.5
17	12.5	10.5	11.0	4.0	3.5	4.0	1.0	0.0	0.5	2.5	1.0	1.5
18	11.0	10.0	10.5	4.5	3.5	4.0	1.0	0.5	0.5	2.5	1.0	2.0
19	---	---	---	4.0	3.5	4.0	1.0	0.5	1.0	2.5	1.0	2.0
20	10.5	10.0	10.5	4.5	4.0	4.0	1.5	0.5	1.0	2.5	1.0	1.5
21	10.5	9.5	10.0	4.0	3.5	4.0	1.0	1.0	1.0	1.0	0.0	0.5
22	10.0	9.5	9.5	3.5	3.0	3.0	2.0	1.0	1.5	1.5	0.5	1.0
23	11.5	9.5	10.5	3.0	1.5	2.0	2.0	1.5	1.5	1.5	1.0	1.5
24	12.0	11.0	11.5	2.5	1.5	2.0	2.0	1.5	2.0	1.5	0.5	1.0
25	12.0	11.5	11.5	3.5	2.5	3.0	2.5	2.0	2.0	1.5	1.0	1.0
26	12.0	10.5	11.5	5.0	3.5	4.0	3.5	2.5	2.5	1.5	1.0	1.5
27	12.0	10.5	11.5	4.5	4.0	4.0	4.0	3.0	3.5	2.0	1.5	2.0
28	12.0	11.0	11.5	3.5	3.0	3.5	3.0	2.5	3.0	2.5	1.5	2.0
29	11.5	11.5	11.5	4.0	3.5	3.5	3.0	1.5	2.0	2.0	0.5	1.0
30	11.5	10.5	11.0	3.5	3.0	3.0	1.5	1.5	1.5	1.0	0.5	0.5
31	10.5	10.0	10.5	---	---	---	1.5	1.0	1.5	1.0	0.5	0.5
MONTH	19.0	9.5	13.0	10.0	1.5	5.5	4.0	0.0	2.0	2.5	0.0	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.5	0.5	3.5	2.0	3.0	---	---	---	---	---	---
2	1.0	0.5	0.5	5.5	3.0	4.5	---	---	---	---	---	---
3	1.0	0.5	0.5	5.0	4.0	4.0	---	---	---	---	---	---
4	1.0	0.5	1.0	4.5	3.0	3.5	---	---	---	14.0	13.5	13.5
5	2.0	1.0	1.5	5.5	3.5	4.5	---	---	---	13.5	12.5	13.0
6	1.5	1.0	1.5	5.0	3.5	4.0	---	---	---	12.5	11.5	12.0
7	2.0	1.5	2.0	3.5	3.0	3.5	---	---	---	13.5	11.0	12.5
8	3.0	2.0	2.5	4.0	3.0	3.5	---	---	---	14.0	12.5	13.0
9	3.0	1.0	2.0	3.5	3.0	3.0	---	---	---	13.0	12.5	13.0
10	1.0	0.5	0.5	3.0	3.0	3.0	---	---	---	13.5	12.0	13.0
11	1.0	0.0	0.5	3.0	2.5	3.0	---	---	---	15.0	13.5	14.0
12	1.5	0.0	0.5	4.5	2.5	3.5	---	---	---	14.0	13.0	13.5
13	2.0	0.5	1.0	5.5	4.5	5.0	6.5	6.0	6.5	13.5	13.0	13.5
14	2.0	0.5	1.5	5.0	3.5	4.0	7.0	4.5	6.0	14.0	13.0	13.5
15	2.0	1.0	1.5	3.5	3.0	3.0	8.0	6.0	7.0	14.0	13.5	14.0
16	2.0	1.0	1.5	5.0	3.5	4.5	9.5	7.0	8.5	14.5	13.0	13.5
17	1.5	0.0	1.0	6.5	5.0	5.5	9.5	8.5	9.0	15.0	13.0	14.0
18	2.0	0.5	1.0	5.5	4.0	4.5	10.0	8.5	9.5	14.5	12.5	13.5
19	2.0	0.5	1.5	4.0	3.0	3.5	10.5	9.5	10.0	12.5	11.5	12.0
20	3.0	1.5	2.5	---	---	---	12.0	10.0	11.0	12.0	12.0	12.0
21	3.0	2.0	2.5	---	---	---	13.5	11.5	12.5	12.5	11.5	12.0
22	3.5	2.0	2.5	---	---	---	13.5	12.5	12.5	12.5	11.5	12.0
23	3.0	2.0	2.5	---	---	---	---	---	---	12.5	12.0	12.0
24	3.0	1.5	2.5	---	---	---	---	---	---	13.5	12.0	12.5
25	3.0	1.5	2.0	---	---	---	---	---	---	14.0	13.5	13.5
26	3.5	2.0	2.5	---	---	---	---	---	---	13.5	13.0	13.0
27	3.0	1.0	2.0	---	---	---	---	---	---	13.5	13.0	13.0
28	3.0	1.0	2.0	---	---	---	---	---	---	13.5	13.0	13.0
29	---	---	---	---	---	---	---	---	---	16.0	13.0	14.5
30	---	---	---	---	---	---	---	---	---	16.0	15.5	16.0
31	---	---	---	---	---	---	---	---	---	17.5	16.0	17.0
MONTH	3.5	0.0	1.5	---	---	---	---	---	---	17.5	11.0	13.5

01183750 CONNECTICUT RIVER AT AGAWAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	---	---	---	27.5	26.5	27.0	28.0	26.5	27.5
2	18.5	17.0	18.0	---	---	---	27.0	25.0	26.0	29.5	27.0	28.0
3	19.0	17.5	18.0	---	---	---	25.5	24.5	25.0	31.0	27.0	28.5
4	18.5	17.5	18.0	---	---	---	26.0	24.0	25.0	29.5	27.5	28.5
5	18.5	17.0	18.0	---	---	---	26.5	25.0	25.5	28.5	27.0	28.0
6	19.0	17.5	18.5	---	---	---	27.0	25.0	26.0	27.0	26.0	26.5
7	20.0	19.0	19.0	---	---	---	27.5	25.5	26.5	26.5	25.0	25.5
8	20.5	19.0	20.0	---	---	---	28.0	26.0	27.5	25.0	23.0	24.0
9	21.5	19.5	20.5	---	---	---	28.0	26.0	27.0	24.0	22.0	23.0
10	22.0	20.5	21.0	---	---	---	28.5	26.5	27.5	23.5	21.0	22.0
11	23.5	21.0	22.5	---	---	---	28.0	27.0	27.5	23.0	21.0	22.0
12	24.5	23.0	23.5	---	---	---	28.0	26.0	27.0	22.5	21.5	22.0
13	23.5	22.0	23.0	---	---	---	27.5	24.0	26.5	22.5	20.5	21.5
14	23.0	21.5	22.5	---	---	---	27.0	25.5	26.0	21.0	20.5	21.0
15	22.0	21.5	22.0	---	---	---	26.5	25.5	26.0	21.0	20.0	20.5
16	22.0	20.5	21.5	---	---	---	26.0	25.0	25.5	22.0	19.5	20.5
17	22.0	20.5	21.0	---	---	---	26.5	24.5	25.5	21.5	19.5	20.5
18	21.0	20.0	20.5	24.5	22.5	23.5	26.5	24.5	25.5	20.0	19.0	19.5
19	20.5	19.5	20.0	24.5	22.5	24.0	27.0	25.0	26.0	20.5	18.5	19.5
20	20.0	19.0	19.5	24.5	23.5	24.0	26.5	25.0	25.5	19.5	18.5	19.0
21	20.0	19.0	19.5	24.0	23.0	23.5	26.5	24.5	25.5	19.5	18.0	18.5
22	20.5	19.0	20.0	24.5	22.5	23.5	25.5	24.5	25.0	18.0	17.0	17.5
23	20.5	19.5	20.0	25.5	22.5	24.0	25.5	23.5	24.5	18.5	17.0	17.5
24	21.5	20.0	20.5	26.5	23.0	24.5	26.0	23.5	24.5	17.5	16.5	17.0
25	22.5	20.5	21.5	27.5	24.0	25.5	26.0	23.5	24.5	18.0	16.5	17.0
26	23.0	21.5	22.0	25.0	24.5	24.5	26.0	23.5	25.0	18.0	16.5	17.5
27	22.5	21.5	22.0	25.0	24.0	24.5	26.5	24.5	25.5	18.5	17.0	18.0
28	23.0	21.5	22.5	25.5	24.0	24.5	26.0	25.0	25.5	19.0	18.0	18.5
29	22.5	22.0	22.0	25.5	24.5	25.0	26.5	25.0	26.0	19.0	17.5	18.0
30	22.0	21.5	22.0	27.0	24.5	25.5	27.5	25.5	26.5	19.0	17.0	18.0
31	---	---	---	28.0	25.5	26.5	28.5	26.5	27.5	---	---	---
MONTH	24.5	17.0	20.5	---	---	---	28.5	23.5	26.0	31.0	16.5	21.5
YEAR	31.0	0.0	11.5									

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, at gaging station on canal of Connecticut Light and Power Co., 1 mi (2 km) downstream from Thompsonville, 3 mi (5 km) downstream from Massachusetts-Connecticut State line, 4.5 mi (7.7 km) downstream from multiple-parameter monitor at Agawam, Mass., and at mile 68.2 (kilometre 109.7).

DRAINAGE AREA.--9,661 mi² (25,022 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, January 1966 to September 1973.
Water temperatures: October 1955 to September 1956.

REMARKS.--Additional chemical analyses for this station in radiochemical and pesticide tables and in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.										
19...	1015	--	142	8.7	7.1	8.5	5.0	18000	4200	2400
NOV.										
16...	1130	19000	116	9.8	7.1	3.0	4.0	58000	3000	1500
DEC.										
14...	1020	24600	134	10.0	6.8	1.5	9.5	4200	1300	1400
JAN.										
11...	1000	14700	170	8.2	6.4	1.0	-5.0	18000	1500	2400
FEB.										
08...	0950	36700	97	9.5	6.8	1.0	5.0	5400	800	2000
MAR.										
08...	1030	21800	104	11.0	6.5	3.0	7.0	6000	2100	1200
APR.										
12...	1025	42800	80	9.8	6.9	4.0	6.5	2500	520	600
MAY										
17...	1025	29400	88	7.5	6.6	13.0	19.0	--	--	--
24...	--	61000	80	7.5	6.5	13.0	--	49000	700	550
JUNE										
14...	0815	18200	112	6.0	6.7	22.0	24.0	48000	2600	2400
JULY										
12...	--	20400	101	7.4	6.3	22.0	21.0	8500	1200	190
AUG.										
09...	0935	5940	83	4.9	6.2	26.5	32.0	26500	4300	57
SEP.										
13...	0950	3740	155	8.2	6.5	21.0	--	26000	15000	250

DATE	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT.												
19...	.40	.77	.14	.0	15	19	--	4.5	220	50	15	2.1
NOV.												
16...	.30	.53	.07	.0	12	.3	3	5.6	180	20	10	1.7
DEC.												
14...	.40	.36	.04	.0	4	.7	1	5.6	130	20	9.0	1.5
JAN.												
11...	.50	.51	.06	.0	12	.6	--	7.0	290	30	12	1.8
FEB.												
08...	.40	.28	.04	.0	11	.0	1	5.3	110	10	7.1	1.3
MAR.												
08...	.50	.33	.13	.0	10	.0	8	6.0	230	50	9.4	1.8
APR.												
12...	.30	1.0	.04	.0	9	.5	5	5.0	160	20	8.0	1.3
MAY												
17...	.30	.38	.04	.0	6	.9	1	5.0	160	.0	9.6	1.3
JUNE												
14...	.39	.88	.09	.0	11	3.2	1	4.9	160	40	12	1.6
JULY												
12...	.44	.48	.09	.0	13	.6	3	5.9	230	40	11	1.5
AUG.												
09...	.50	.56	.08	.0	13	6.1	--	5.1	50	50	13	1.8
SEP.												
13...	.13	.58	.14	.0	19	17	2	1.9	30	10	17	2.1

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 19...	9.0	3.1	41	0	34	14	14	.1	84	46	12	2.1
NOV. 16...	5.6	1.5	22	0	18	12	9.0	.0	59	32	14	2.8
DEC. 14...	7.7	.8	18	0	15	13	14	.1	63	29	14	9.1
JAN. 11...	7.0	.9	24	0	20	14	11	.1	69	37	18	3.8
FEB. 08...	5.2	.8	17	0	14	11	7.0	.1	48	23	9	3.4
MAR. 08...	5.9	1.1	20	0	16	13	9.0	.1	59	31	14	3.2
APR. 12...	4.0	.7	17	0	14	12	6.0	.2	47	25	11	4.3
MAY 17...	4.4	.9	22	0	18	11	6.0	.3	51	29	11	2.2
JUNE 14...	5.9	1.2	33	0	27	10	9.4	.2	64	37	9	2.6
JULY 12...	5.2	1.2	28	0	23	9.1	7.2	.2	57	34	11	3.6
AUG. 09...	7.4	1.7	36	0	30	12	10	.3	71	40	10	11
SEP. 13...	9.4	2.2	48	0	39	12	13	.2	82	51	12	4.8

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 19...	2.0	6	.01	.24	.74	1.3	0	.0	5.0	6	.0
NOV. 16...	--	--	.00	.20	.66	1.1	0	.0	7.0	3	20
DEC. 14...	--	--	.01	.05	.24	.70	0	.0	2.0	0	.0
JAN. 11...	12	6	.02	.18	.56	1.2	0	.0	2.0	3	10
FEB. 08...	--	--	.00	.06	.21	.67	0	.0	1.0	1	.0
MAR. 08...	--	--	.00	.09	.41	1.0	0	.0	.0	1	10
APR. 12...	--	3	.00	.09	.38	.77	0	.0	.0	1	.0
MAY 17...	--	--	.01	.11	.27	.69	0	.0	1.0	2	10
JUNE 14...	3.6	--	.01	.20	.48	1.0	0	10	2.0	1	.0
JULY 12...	--	0	.00	.07	.41	.93	0	10	2.0	0	10
AUG. 09...	--	2	.00	.03	.53	1.0	0	20	3.0	2	20
SEP. 13...	--	0	.01	.02	.56	.73	0	10	3.0	2	20

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°44'28", long 73°12'47", Berkshire County, multiple-parameter monitor on right bank 0.3 mi (0.5 km) upstream from Massachusetts-Vermont State line, 2 mi (3 km) northwest of Williamstown, and 3.9 mi (6.3 km) downstream from gaging station on Hoosic River near Williamstown.

DRAINAGE AREA.--203 mi^2 (526 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1968 to current year (no monitor records during winter of water year 1973).
Water temperatures: November 1968 to current year (no monitor records during winter of water year 1973).

EXTREMES.--Current year:
Dissolved oxygen: Maximum not determined; minimum, 1.7 mg/l Oct. 7.
Water temperatures: Maximum, 25.5°C Aug. 30, 31; minimum, freezing point probably on several days during winter period.

Period of record:
Specific conductance: Maximum, 560 micromhos Aug. 20, 1970; minimum, 59 micromhos Apr. 19, 1972.
pH: Maximum, 9.9 Dec. 24, 1970; minimum, 5.8 July 5, 1970.
Dissolved oxygen: Maximum, 16.5 mg/l Feb. 15, 1971; minimum, 0.0 mg/l July 24, 25, 27, 28, 1970.
Water temperatures: Maximum, 26.5°C July 27, 1970; minimum, freezing point on several days in water years 1970-71.

REMARKS.--Figures of daily discharge (computed on basis of records for gaging station near Williamstown and for Green River near Williamstown) are available in district office. Additional chemical analyses for this station in radiochemical and pesticide tables and in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 03...	1700	80	2.1	--	--	1.3	.29	--	440	8.1	14.5
NOV. 07...	1700	300	.70	--	--	1.5	.33	--	210	7.8	7.5
DEC. 06...	1300	690	.60	--	--	.99	.24	--	242	7.9	4.9
JAN. 17...	1530	300	.70	--	--	1.1	.31	--	247	7.9	2.8
FEB. 14...	1300	420	1.1	--	--	.51	.16	--	--	--	.0
MAR. 07...	1330	420	1.4	--	--	.80	.30	--	210	8.0	4.5
APR. 11...	1500	950	.40	--	--	.65	.38	--	160	7.7	3.0
MAY 16...	1300	820	.40	--	--	.65	.13	--	153	8.5	11.0
JUNE 14...	1800	790	.36	.03	--	.48	.17	--	162	7.5	11.0
JULY 11...	1630	260	.93	.02	.22	.63	.00	--	250	8.0	22.0
AUG. 29...	2100	120	2.3	.00	.02	1.1	.42	230	400	7.7	22.0
SEP. 26...	1300	100	.00	.01	.04	.80	.27	191	350	7.8	15.0

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 03...	--	15	6.3	14	.7	190000	10000	--	--	.0
NOV. 07...	--	10	10.5	18	4.1	530000	30000	--	--	.0
DEC. 06...	--	15	11.2	13	3.0	94000	36000	--	--	.0
JAN. 17...	--	15	11.5	19	.5	321000	--	12000	--	.0
FEB. 14...	--	10	13.5	6	1.4	31000	7200	7000	--	.0
MAR. 07...	--	20	12.0	18	3.6	220000	13000	5200	--	.0
APR. 11...	--	25	11.9	17	1.9	20000	6400	6700	--	.0
MAY 16...	--	9	11.3	11	5.1	5400	3400	3600	--	.0
JUNE 14...	--	9	8.6	14	3.0	110000	8800	--	--	.0
JULY 11...	--	7	--	6	.4	200000	11000	2300	--	.0
AUG. 29...	3	5	--	22	.0	670000	30000	--	4	.0
SEP. 26...	5	3	8.0	11	12	1200000	27000	3100	5	.0

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	428	346	371	---	---	---
2	416	317	345	---	---	---
3	406	379	390	227	195	211
4	481	400	432	227	178	194
5	498	405	456	234	192	202
6	526	434	469	199	185	192
7	510	422	468	225	189	202
8	---	---	---	242	202	221
9	---	---	---	272	198	219
10	---	---	---	241	187	200
11	---	---	---	202	105	145
12	---	---	---	169	128	151
13	295	256	272	169	152	158
14	309	200	269	179	159	168
15	279	239	256	198	176	188
16	296	240	260	182	146	164
17	347	260	290	185	152	165
18	335	281	303	203	109	151
19	327	280	303	130	116	122
20	327	288	300	148	130	139
21	328	282	297	152	112	123
22	353	283	301	116	104	109
23	296	260	278	---	---	---
24	---	---	---	174	144	155
25	386	335	358	179	152	162
26	414	318	361	184	159	165
27	389	323	356	175	163	167
28	416	320	346	172	166	169
29	331	266	300	175	144	158
30	280	220	243	182	149	166
31	305	229	251	190	162	174
MONTH	526	200	331	272	104	169

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	188	173	182	---	---	---	---	---	---	361	269	308
2	210	184	192	---	---	---	---	---	---	305	250	285
3	197	189	192	---	---	---	---	---	---	321	257	286
4	212	189	199	---	---	---	---	---	---	301	212	272
5	245	199	232	---	---	---	---	---	---	---	---	---
6	242	203	222	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	485	300	405
12	---	---	---	---	---	---	---	---	---	499	390	417
13	---	---	---	---	---	---	---	---	---	509	389	420
14	---	---	---	---	---	---	---	---	---	517	380	423
15	---	---	---	---	---	---	373	294	333	423	381	393
16	---	---	---	---	---	---	298	241	266	399	300	374
17	---	---	---	295	264	280	327	267	290	513	355	398
18	---	---	---	334	273	283	309	293	300	459	345	401
19	---	---	---	325	288	302	309	295	300	460	330	393
20	256	222	238	331	283	306	375	294	317	489	360	404
21	284	237	250	291	269	280	414	306	346	505	372	415
22	292	248	263	272	264	267	420	334	364	437	377	391
23	285	242	266	340	269	304	437	350	384	394	351	369
24	278	261	269	398	291	320	414	351	373	461	319	352
25	284	261	276	397	306	331	396	355	365	433	325	358
26	282	200	271	398	310	342	381	347	361	400	338	361
27	279	253	270	388	288	332	415	333	357	487	358	401
28	307	247	262	319	290	301	377	320	350	508	376	412
29	266	180	230	---	---	---	346	276	305	434	384	397
30	---	---	---	---	---	---	428	272	309	---	---	---
31	---	---	---	---	---	---	416	282	332	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
PERIOD	526	104	287									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.6	7.3	7.4	---	---	---
2	7.7	7.3	7.4	---	---	---
3	7.7	7.4	7.5	8.9	7.8	8.4
4	8.1	7.6	7.8	9.0	7.8	8.4
5	8.0	7.5	7.7	8.9	7.7	8.2
6	7.9	7.5	7.6	9.1	7.8	8.5
7	7.8	7.4	7.6	9.2	7.8	8.5
8	---	---	---	9.0	7.6	8.4
9	---	---	---	8.5	7.7	8.1
10	---	---	---	9.1	7.7	8.4
11	---	---	---	8.2	7.7	7.8
12	---	---	---	8.2	7.7	7.9
13	8.2	7.6	7.9	8.4	7.9	8.1
14	8.0	7.5	7.7	8.6	7.8	8.3
15	7.8	7.0	7.6	8.7	8.0	8.2
16	7.5	7.0	7.3	8.5	7.6	8.2
17	8.0	7.2	7.7	8.6	7.6	8.0
18	8.3	7.6	7.8	8.0	7.4	7.6
19	7.8	7.6	7.7	7.9	7.4	7.6
20	7.8	7.4	7.6	7.8	7.4	7.6
21	7.7	7.4	7.5	7.6	7.3	7.4
22	7.9	6.9	7.5	7.5	7.2	7.3
23	7.6	7.4	7.5	---	---	---
24	---	---	---	8.0	7.3	7.6
25	7.8	7.3	7.5	8.0	7.3	7.6
26	7.8	7.3	7.5	7.9	7.3	7.5
27	7.8	7.4	7.6	8.0	7.3	7.6
28	7.9	7.5	7.6	7.6	7.2	7.4
29	7.6	7.4	7.5	7.6	7.2	7.4
30	7.8	7.2	7.3	8.4	7.2	7.7
31	7.7	7.2	7.4	8.0	7.3	7.6
MONTH	8.3	6.9	7.6	9.2	7.2	7.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.3	7.6	7.4	7.3	7.4	---	---	---	7.8	7.5	7.6
2	8.2	7.3	7.7	7.5	7.4	7.4	---	---	---	7.9	7.6	7.7
3	8.3	7.2	7.7	---	---	---	---	---	---	7.9	7.4	7.7
4	8.0	7.2	7.6	---	---	---	---	---	---	7.7	7.5	7.6
5	8.1	7.3	7.6	---	---	---	---	---	---	---	---	---
6	7.7	7.1	7.3	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	7.8	7.4	7.5
12	---	---	---	---	---	---	---	---	---	7.8	7.5	7.6
13	---	---	---	---	---	---	---	---	---	7.8	7.5	7.6
14	---	---	---	---	---	---	---	---	---	7.7	7.4	7.6
15	---	---	---	---	---	---	7.9	7.7	7.8	7.7	7.5	7.6
16	---	---	---	---	---	---	8.2	7.6	7.9	7.7	7.5	7.6
17	---	---	---	8.2	7.7	7.9	8.4	7.4	7.9	7.9	7.5	7.6
18	---	---	---	8.5	7.6	7.9	8.4	7.6	7.9	7.7	7.4	7.5
19	---	---	---	---	---	---	8.3	7.4	7.9	7.8	7.4	7.5
20	8.2	7.5	7.8	---	---	---	8.5	7.5	7.9	7.7	7.3	7.5
21	8.0	7.4	7.6	---	---	---	8.5	7.5	7.9	7.8	7.3	7.6
22	7.7	7.3	7.5	---	---	---	8.2	7.4	7.7	7.6	7.5	7.5
23	7.8	7.4	7.6	---	---	---	8.2	7.5	7.8	7.8	7.5	7.6
24	8.0	7.4	7.7	8.4	7.5	7.8	8.2	7.4	7.7	7.7	7.4	7.5
25	8.0	7.5	7.7	8.3	7.4	7.8	8.1	7.4	7.7	7.8	7.5	7.6
26	8.0	7.5	7.8	7.8	7.3	7.5	8.2	7.4	7.8	7.8	7.3	7.6
27	8.1	7.5	7.8	8.0	7.3	7.5	7.9	7.5	7.6	7.8	7.4	7.5
28	7.9	7.4	7.6	8.1	7.3	7.5	7.6	7.4	7.5	7.7	7.4	7.5
29	7.6	7.4	7.5	---	---	---	8.0	7.4	7.7	7.5	7.3	7.4
30	7.4	6.9	7.2	---	---	---	8.0	7.6	7.8	---	---	---
31	---	---	---	---	---	---	8.0	7.6	7.7	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
PERIOD	9.2	6.9	7.7									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.1	3.3	6.3	---	---	---
2	9.5	5.3	6.8	---	---	---
3	7.9	3.2	4.7	---	---	---
4	7.6	2.1	3.9	---	---	---
5	7.8	2.3	4.0	---	---	---
6	7.5	1.9	4.0	---	---	---
7	7.1	1.7	3.5	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	9.6	8.7	9.1	---	---	---
14	10.3	8.1	9.2	---	---	---
15	10.5	8.2	9.4	---	---	---
16	10.5	8.5	9.8	11.3	9.3	10.3
17	9.3	7.0	8.4	11.6	9.0	10.2
18	10.1	7.9	8.7	10.9	8.4	9.9
19	10.0	7.5	8.9	11.5	10.2	11.1
20	11.1	9.1	9.9	11.4	10.0	10.7
21	10.4	8.8	9.5	---	---	---
22	11.1	8.8	9.9	---	---	---
23	9.9	8.2	9.0	---	---	---
24	---	---	---	11.1	9.5	10.3
25	7.7	6.7	7.3	10.8	9.6	10.2
26	8.8	5.9	7.1	11.2	9.4	10.4
27	9.1	5.3	7.0	11.5	9.1	10.3
28	6.9	5.6	6.4	10.8	9.2	10.1
29	7.2	5.0	6.0	10.5	8.1	9.5
30	10.2	6.9	8.7	9.9	8.3	9.1
31	10.8	8.7	9.7	9.6	7.8	8.8
MONTH	11.1	1.7	7.5	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.1	7.8	8.9	---	---	---	---	---	---	---	---	---
2	10.4	7.5	8.8	---	---	---	---	---	---	---	---	---
3	10.8	6.8	8.6	---	---	---	---	---	---	---	---	---
4	8.5	6.3	7.3	---	---	---	---	---	---	---	---	---
5	6.3	3.5	5.3	---	---	---	---	---	---	---	---	---
6	4.7	2.4	3.8	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	7.4	3.5	4.5
12	---	---	---	---	---	---	---	---	---	6.9	3.0	4.5
13	---	---	---	---	---	---	---	---	---	6.8	2.4	4.2
14	---	---	---	---	---	---	---	---	---	5.0	2.4	3.5
15	---	---	---	---	---	---	7.5	5.1	6.1	5.2	2.9	4.0
16	---	---	---	---	---	---	9.5	5.7	7.5	5.7	3.2	4.2
17	---	---	---	9.6	6.3	7.7	9.9	4.3	7.0	7.6	3.2	4.7
18	---	---	---	10.1	5.3	7.6	10.3	4.4	7.0	6.7	4.0	5.0
19	---	---	---	10.0	4.1	5.8	10.2	4.6	7.0	8.3	4.3	6.1
20	8.7	6.8	7.8	9.2	3.5	6.0	10.4	3.6	6.5	8.0	4.4	5.5
21	8.8	6.3	7.6	7.7	5.7	6.1	9.8	3.2	6.0	8.4	4.6	6.1
22	8.5	6.3	7.7	9.9	4.7	6.2	8.7	3.2	5.1	8.1	4.9	6.4
23	10.0	7.6	8.7	9.9	4.5	7.5	10.0	3.2	5.8	7.8	4.9	6.2
24	10.4	7.6	8.8	10.5	3.7	6.8	9.2	2.8	5.3	6.4	4.3	5.1
25	10.2	8.1	9.3	10.3	3.2	6.6	9.0	2.5	5.5	8.4	4.9	6.4
26	9.5	6.6	8.3	7.6	2.8	5.1	9.7	3.0	5.8	8.0	4.4	6.0
27	8.7	6.0	7.4	8.8	3.3	5.5	7.9	2.9	4.5	7.8	3.1	5.1
28	8.9	5.4	7.2	9.6	3.6	5.5	---	---	---	6.6	2.8	4.4
29	7.9	6.0	7.2	---	---	---	---	---	---	5.9	3.2	4.0
30	10.0	7.8	9.2	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
PERIOD	11.6	1.7	7.1									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	11.5	13.0	---	---	---
2	13.5	10.5	12.0	---	---	---
3	14.5	12.5	13.0	15.5	14.0	15.0
4	15.0	13.5	14.0	14.0	11.0	12.0
5	16.0	13.5	14.5	11.0	9.0	9.5
6	15.5	13.0	15.0	11.0	8.5	9.5
7	17.0	14.5	16.0	15.0	8.5	11.5
8	---	---	---	13.0	11.0	12.0
9	---	---	---	11.5	11.0	11.0
10	---	---	---	16.0	11.0	13.5
11	---	---	---	15.5	12.5	13.5
12	---	---	---	13.5	11.0	12.0
13	10.5	9.5	10.5	11.5	10.0	11.0
14	10.5	8.0	9.5	12.0	9.5	10.5
15	10.0	7.5	9.0	11.0	9.5	10.5
16	8.5	6.5	7.5	13.5	9.5	11.0
17	10.0	8.0	9.0	14.0	10.0	12.0
18	8.5	7.0	8.0	13.0	8.5	10.5
19	8.5	6.5	7.5	10.5	8.0	9.0
20	7.0	4.5	5.5	10.5	8.5	9.5
21	6.5	4.0	5.0	10.5	9.5	10.0
22	7.5	4.0	6.0	9.5	9.0	9.0
23	8.0	6.5	7.5	---	---	---
24	---	---	---	14.0	11.0	12.5
25	9.5	9.0	9.5	12.5	11.5	12.0
26	10.0	8.0	9.0	13.5	10.5	11.5
27	9.5	7.0	8.5	14.5	10.5	12.5
28	11.0	8.5	9.5	12.5	11.0	11.5
29	11.5	11.0	11.5	15.0	11.5	13.0
30	10.5	8.0	9.0	17.0	13.0	15.0
31	7.5	6.0	7.0	17.0	14.5	15.5
MONTH	17.0	4.0	10.0	17.0	8.0	11.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.5	15.0	19.5	16.0	17.5	---	---	---	24.0	21.5	23.0
2	17.5	13.5	15.5	20.5	16.5	18.5	---	---	---	25.0	22.0	23.5
3	17.0	12.0	14.5	---	---	---	---	---	---	25.5	23.0	24.5
4	16.0	13.5	15.0	---	---	---	---	---	---	24.5	21.0	24.0
5	18.5	15.0	16.5	---	---	---	---	---	---	---	---	---
6	18.5	16.5	17.5	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	17.0	15.0	15.5
12	---	---	---	---	---	---	---	---	---	17.0	14.5	15.5
13	---	---	---	---	---	---	---	---	---	17.0	14.5	16.0
14	---	---	---	---	---	---	---	---	---	15.5	15.0	15.5
15	---	---	---	---	---	---	20.5	19.5	20.0	15.5	14.5	15.0
16	---	---	---	---	---	---	21.5	18.5	20.0	15.5	14.5	15.0
17	---	---	---	20.5	18.0	19.5	23.5	19.0	21.5	16.0	13.0	14.5
18	---	---	---	21.0	16.5	18.0	23.5	20.0	22.0	15.5	15.0	15.5
19	---	---	---	22.5	18.5	21.0	22.5	20.0	21.5	16.5	14.0	15.5
20	20.5	16.0	19.0	22.0	20.0	21.0	22.5	19.5	21.5	15.5	13.5	14.5
21	21.0	17.5	19.0	22.0	18.0	19.5	22.0	19.0	21.0	14.5	12.0	13.5
22	19.5	18.5	19.0	23.5	19.0	21.5	21.5	19.0	20.0	13.0	11.0	12.0
23	20.0	16.5	18.0	23.0	18.5	21.5	20.5	17.0	19.0	17.0	12.5	14.5
24	21.5	17.5	19.5	22.5	18.0	20.5	21.5	18.0	20.0	17.0	14.5	15.5
25	21.0	16.5	19.0	22.5	19.0	21.0	21.5	18.5	20.0	16.0	13.0	14.5
26	22.5	17.5	20.0	22.0	20.0	20.5	22.0	20.0	21.0	16.0	13.0	14.5
27	20.5	18.5	19.5	22.5	19.5	20.5	22.0	20.5	21.5	17.0	14.0	15.5
28	21.0	18.5	19.5	23.0	20.5	21.5	22.0	21.0	21.5	17.5	15.5	17.0
29	20.0	19.0	19.5	---	---	---	24.0	20.5	22.5	15.5	14.0	14.5
30	19.0	17.0	17.5	---	---	---	25.5	22.0	24.0	---	---	---
31	---	---	---	---	---	---	25.5	22.5	24.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
PERIOD	25.5	4.0	15.5									

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y., at bridge on New York-Vermont State Highway 346, at State line, 1.3 mi (2.1 km) northwest of North Pownal, Vt.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT.										
24...	0915	361	7.8	1.5	--	.17	.12	.0	8	4.1
NOV.										
08...	1115	233	7.7	.67	1.3	.29	--	.0	7	4.0
JAN.										
03...	0945	155	7.3	.49	--	.04	.03	.0	0	3.7
FEB.										
13...	1530	228	7.6	1.0	.37	.11	--	.0	4	4.0
MAR.										
06...	0915	189	7.4	1.0	--	.13	.01	.0	6	4.0
APR.										
03...	0930	126	7.7	.56	--	.05	.02	.0	7	3.3
MAY										
08...	0930	214	7.2	.60	--	.13	.10	.0	6	1.2
30...	0900	166	7.4	.41	--	.07	.02	.0	7	3.5
JUNE										
26...	0945	220	7.4	.64	--	.20	.14	.0	7	3.6
30...	1140	118	7.2	.58	--	--	--	--	--	3.3
AUG.										
07...	1050	326	7.4	1.4	.35	.22	.17	.0	9	4.6
21...	1030	360	7.3	2.0	.46	.14	.08	.0	6	3.7
SEP.										
18...	0930	384	7.5	1.7	.24	.34	.20	.0	7	5.1

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.										
24...	40	9.7	24	2.2	146	0	24	27	.7	211
NOV.										
08...	25	6.5	12	1.5	95	0	18	12	.2	129
JAN.										
03...	18	4.3	5.5	.7	58	0	13	7.5	.0	84
FEB.										
13...	27	6.8	10	1.0	88	0	21	12	.1	130
MAR.										
06...	20	5.1	8.6	1.2	71	0	15	13	.0	107
APR.										
03...	15	3.7	4.9	.7	50	0	12	6.0	.2	73
MAY										
08...	25	6.7	10	1.2	88	0	15	20	.2	126
30...	20	5.0	6.1	.8	72	0	13	8.0	.1	94
JUNE										
26...	25	6.6	10	1.2	92	0	15	14	.1	124
30...	19	3.9	2.3	1.8	61	0	16	3.0	.1	82
AUG.										
07...	34	9.3	20	1.7	129	0	20	24	.2	184
21...	37	10	23	2.2	131	0	28	26	.1	204
SEP.										
18...	38	11	26	1.1	167	0	21	21	.4	214

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.										
24...	7	140	20	3.7	.00	.11	.45	--	--	--
NOV.										
08...	10	89	11	3.0	.05	.30	.61	--	9.8	55000
JAN.										
03...	11	63	15	4.7	.00	.10	.22	--	--	--
FEB.										
13...	4	95	23	3.5	.02	.04	.25	3.0	13.2	2400
MAR.										
06...	28	71	13	4.5	.00	.01	--	--	--	--
APR.										
03...	11	53	12	1.6	.01	.05	1.1	--	--	--
MAY										
08...	4	90	18	8.9	.05	.25	.34	--	--	--
30...	10	71	11	4.6	.03	.25	.11	--	--	--
JUNE										
26...	6	90	14	5.9	.21	.12	.14	--	--	--
30...	--	64	13	6.2	.01	--	--	--	--	--
AUG.										
07...	13	120	17	8.2	.00	.02	.33	--	--	--
21...	6	130	26	11	.00	.01	.45	--	--	--
SEP.										
18...	12	140	3	8.4	.00	.00	.24	--	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
24...	--	--	--	0	.0	--	5.0	<.5	--	--
NOV.										
08...	12000	.0	10	0	30	250	5.0	<.5	--	30
JAN.										
03...	--	--	--	--	--	--	--	--	--	--
FEB.										
13...	81000	.0	7	0	80	350	11	<.5	80	40
MAR.										
06...	--	--	--	--	--	--	--	--	--	--
APR.										
03...	--	--	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	0	.0	550	20	6.2	60	--
JUNE										
26...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
AUG.										
07...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
SEP.										
18...	--	--	--	<1	10	620	3.0	3.2	180	--

B Non-Ideal colony count.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MERRIMACK RIVER BASIN												
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N. H. (LAT 43 58 34 LONG 071 40 48)												
OCT., 1972 02...	0800	163	.20	--	--	.37	.01	--	44	6.3	7.8	--
MAY , 1973 14...	1900	898	.30	--	--	.16	.00	--	30	9.1	8.0	--
JUNE 12...	1130	500	.29	.00	--	.04	.00	--	44	6.4	11.0	--
JULY 10...	0830	440	.29	.00	.28	.19	.01	--	40	6.3	16.0	--
AUG. 29...	1100	140	.21	.00	.01	.22	.01	40	47	7.3	19.0	15
01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)												
JULY, 1973 09...	1400	E530	.82	.00	.25	.95	.19	--	115	6.6	26.0	--
AUG. 28...	0600	E30	--	.00	.03	1.2	.32	121	190	6.5	23.5	15
SEP. 24...	1500	E220	1.7	.00	.04	1.2	.40	111	170	6.4	15.0	10
NARRAGANSETT BAY												
01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)												
JULY, 1973 10...	1045	--	--	--	.15	--	.12	29800	34300	8.1	28.0	--
AUG. 08...	1130	--	.28	.00	.22	--	.13	30400	39500	8.8	23.8	10
SEP. 05...	1100	--	.00	.00	.08	--	.06	31400	39100	8.1	23.3	5
01109150 - MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41 39 45 LONG 071 13 45)												
DEC., 1972 05...	1050	--	.00	--	--	.39	.06	--	34500	7.8	6.2	--
MAR., 1973 13...	1215	--	.00	--	--	.28	.05	--	40000	8.5	8.2	--
JUNE 05...	1125	--	.00	.00	--	.43	.05	--	41200	8.1	18.0	--
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)												
JULY, 1973 10...	1245	--	--	--	.45	--	.28	30600	34500	8.1	26.0	--
AUG. 08...	1320	--	.46	.00	.35	--	.23	29500	39100	8.0	23.3	5
SEP. 05...	1325	--	.00	.00	.31	--	.21	30600	39400	7.6	21.9	15
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)												
DEC., 1972 05...	1200	--	.00	--	--	.48	.06	--	40900	7.0	1.4	--
MAR., 1973 13...	1430	--	.00	--	--	.23	.08	--	40400	8.4	5.4	--
JUNE 05...	1300	--	.00	.01	--	.92	.17	--	34800	7.6	18.2	--
JULY 10...	1200	--	--	--	.46	--	.29	26800	32100	8.1	26.0	--
AUG. 08...	1245	--	.78	.00	.34	--	.28	26500	35300	8.3	25.0	10
SEP. 05...	1245	--	.60	.00	.24	--	.18	29400	38300	7.6	23.2	5

E Estimated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MERRIMACK RIVER BASIN

01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N. H. (LAT 43 58 34 LONG 071 40 48)

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
OCT., 1972 02...	2	11.1	9	.9	67	14	--	--	--	.0	--
MAY , 1973 14...	1	11.0	3	1.3	28	1	3	--	--	.0	--
JUNE 12...	1	--	10	1.2	--	--	--	--	--	.0	--
JULY 10...	3	9.5	6	.4	120	1	10	--	--	.0	--
AUG. 29...	2	7.6	12	1.9	>320	4	--	--	0	.0	2

01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
JULY, 1973 09...	8	8.3	17	13	2800	40	35	--	--	.0	--
AUG. 28...	3	--	26	2.3	40000	19	32	8.0	--	.0	2
SEP. 24...	4	4.3	19	1.3	31000	160	44	7.0	0	.0	--

NARRAGANSETT BAY

01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
JULY, 1973 10...	--	5.4	--	--	330	400	--	--	11	--	1
AUG. 08...	--	4.2	--	--	1200	73	--	--	--	--	0
SEP. 05...	--	6.2	--	--	--	16	--	--	120	--	5

01109150 - MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41 39 45 LONG 071 13 45)

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
DEC., 1972 05...	2	8.9	12	.9	--	--	--	--	--	.7	--
MAR., 1973 13...	2	13.1	15	2.2	--	--	--	--	--	1.1	--
JUNE 05...	2	8.6	17	2.8	6	0	--	--	--	1.6	--

01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
JULY, 1973 10...	--	1.6	--	--	1100	44	--	--	44	--	0
AUG. 08...	--	2.7	--	--	3800	110	--	--	2	--	1
SEP. 05...	--	1.6	--	--	--	60	--	--	170	--	1

01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
DEC., 1972 05...	3	8.0	11	.8	--	--	--	--	--	.8	--
MAR., 1973 13...	4	12.5	16	5.1	--	--	--	--	--	1.1	--
JUNE 05...	2	4.4	11	1.7	330	52	--	--	--	1.4	--
JULY 10...	--	2.3	--	--	5500	420	--	--	0	--	0
AUG. 08...	--	6.2	--	--	500	21	--	--	--	--	0
SEP. 05...	--	2.6	--	--	--	58	--	--	200	--	8

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
NARRAGANSETT BAY.--CONTINUED												
01116630 - PROVIDENCE RIVER NEAR WARWICK, R.I. (LAT 41 43 20 LONG 071 21 00)												
DEC., 1972												
05...	1130	--	.00	--	--	.53	.09	--	39900	8.0	6.4	--
MAR., 1973												
13...	1345	--	.00	--	--	.63	.07	--	43900	8.5	6.8	--
JUNE												
05...	1225	--	.00	.00	--	.79	.12	--	38600	8.2	19.4	--
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 071 24 00)												
DEC., 1972												
05...	0850	--	.00	--	--	.38	.05	--	40300	7.8	6.5	--
MAR., 1973												
13...	0845	--	.00	--	--	.15	.03	--	39100	8.3	5.0	--
JUNE												
05...	0900	--	.00	.00	--	.80	.04	--	41200	7.8	16.0	--
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)												
DEC., 1972												
05...	0930	--	.00	--	--	.26	.04	--	41700	8.0	6.8	--
MAR., 1973												
13...	1015	--	.00	--	--	.00	.02	--	39500	8.4	4.8	--
JUNE												
05...	1000	--	.03	.00	--	.33	.03	--	43000	8.0	14.8	--
JULY												
10...	0930	--	--	--	.05	--	.02	34500	37300	8.3	18.9	--
AUG.												
08...	1000	--	.00	.01	.10	--	.05	32800	42400	8.2	20.7	5
SEP.												
05...	0945	--	.00	.00	.12	--	.02	32800	42300	8.1	20.7	5
CONNECTICUT RIVER BASIN												
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)												
JULY, 1973												
10...	1230	a8500	.19	.00	.16	.52	.02	50	49	6.4	20.0	--
AUG.												
29...	1430	--	.14	.00	.04	--	.01	52	62	6.3	22.0	35
SEP.												
25...	1200	a7500	.13	.00	.21	.38	.00	57	72	6.7	18.0	40
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)												
JULY, 1973												
11...	1230	b21000	--	--	--	.50	.05	71	90	7.0	22.0	--
AUG.												
29...	1815	--	.26	.00	.01	.37	.02	98	152	7.1	25.0	10
SEP.												
25...	1800	b10300	.30	.00	.04	.22	.02	91	140	7.2	17.0	20

a Discharge record furnished by New England Power Co.
b Discharge record furnished by Western Massachusetts Electric Co.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
NARRAGANSETT BAY.--CONTINUED											
01116630 - PROVIDENCE RIVER NEAR WARWICK, R.I. (LAT 41 43 20 LONG 071 21 00)											
DEC., 1972 05...	3	8.5	14	1.1	--	--	--	--	--	.8	--
MAR., 1973 13...	2	14.0	12	4.1	--	--	--	--	--	1.1	--
JUNE 05...	2	9.6	8	6.9	5	0	--	--	--	1.4	--
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 071 24 00)											
DEC., 1972 05...	2	5.8	7	1.0	--	--	--	--	--	.8	--
MAR., 1973 13...	2	12.5	6	1.5	--	--	--	--	--	1.1	--
JUNE 05...	3	7.6	14	.8	0	1	--	--	--	1.7	--
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)											
DEC., 1972 05...	2	9.6	--	.7	--	--	--	--	--	.8	--
MAR., 1973 13...	1	13.1	5	.1	--	--	--	--	--	1.2	--
JUNE 05...	1	7.5	9	.7	3	0	--	--	--	2.0	--
JULY 10...	--	7.5	--	--	4	0	--	--	--	--	--
AUG. 08...	--	6.9	--	--	6	1	--	--	1	--	0
SEP. 05...	--	7.5	--	--	--	16	--	--	130	--	2
CONNECTICUT RIVER BASIN											
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)											
JULY, 1973 10...	5	7.2	25	.5	160	5	1	11	1	--	--
AUG. 29...	2	3.7	21	.0	>470	0	--	26	0	.0	2
SEP. 25...	2	3.5	19	.6	1000	7	1	7.0	0	.0	--
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)											
JULY, 1973 11...	1	8.4	20	.5	67	14	--	--	--	--	--
AUG. 29...	6	5.8	16	1.4	22000	60	--	--	0	.0	2
SEP. 25...	3	7.5	16	1.9	10000	110	74	--	20	.0	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

ST. LAWRENCE RIVER BASIN

04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
MAY , 1973											
08...	1530	.30	--	.34	.03	245	8.1	13.5	14.5	9	9.1
JUNE											
05...	1600	.39	.01	1.4	.06	235	7.5	18.0	25.0	10	9.1
JULY											
03...	1500	--	.01	.41	.05	190	7.6	23.0	33.0	20	8.1
AUG.											
08...	1645	--	.03	.31	.04	230	7.5	22.0	33.5	20	7.7
SEP.											
12...	1630	--	.00	.20	.06	220	7.7	19.5	19.0	20	7.3

04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
MAY , 1973											
08...	1215	.08	--	.32	.02	171	8.2	14.0	13.0	10	9.2
JUNE											
05...	1230	.02	.00	.29	.02	158	7.5	18.5	26.0	7	9.4
JULY											
03...	1215	--	.01	.46	.04	215	7.5	22.5	28.0	10	8.0
AUG.											
08...	1235	--	.01	.28	.03	215	7.9	24.0	29.0	10	7.6
SEP.											
12...	1300	--	.03	.23	.05	217	7.8	20.0	17.0	15	7.6

04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
MAY , 1973											
08...	1130	.10	--	.32	.01	179	8.1	14.0	17.5	10	9.2
JUNE											
05...	1130	.03	.00	.62	.03	190	7.8	18.5	24.0	9	9.5
JULY											
03...	1130	--	.00	.36	.03	220	7.7	23.0	28.5	15	8.5
AUG.											
08...	1130	--	.00	.30	.03	215	8.1	25.0	26.0	15	7.5
SEP.											
12...	1130	--	.01	.33	.05	50	7.6	20.0	20.5	25	7.9

ST. LAWRENCE RIVER BASIN

04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)

DATE	TOTAL ARSENIC (AS) (UG/L)	CYANIDE (CN) (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY , 1973											
08...	0	--	--	--	--	1.0	<.5	--	--	--	.0
JUNE											
05...	10	--	--	--	--	2.0	.5	--	--	--	.0
JULY											
03...	0	--	--	--	--	7.0	1.8	--	--	--	30
AUG.											
08...	0	.0	.0	10	990	6.0	.6	90	.0	.0	20
SEP.											
12...	<1	--	--	--	--	5.0	<.5	--	--	--	20

04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)

DATE	TOTAL ARSENIC (AS) (UG/L)	CYANIDE (CN) (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY , 1973											
08...	0	--	--	--	--	3.0	220	--	--	--	10
JUNE											
05...	0	--	--	--	--	1.0	.5	--	--	--	10
JULY											
03...	10	--	--	--	--	5.0	<.5	--	--	--	10
AUG.											
08...	0	.0	.0	10	460	4.0	.7	50	.0	.0	20
SEP.											
12...	0	--	--	--	--	3.0	<.5	--	--	--	20

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CHLORO-PHYLL A (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
ST. LAWRENCE RIVER BASIN											
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)											
MAY , 1973											
08...	.4	5400	B400	--	3.0	--	--	--	--	--	--
JUNE											
05...	3.8	2300	400	20	6.0	--	--	--	--	--	--
JULY											
03...	.3	62000	B2300	.0	120	--	--	--	--	--	--
AUG.											
08...	4.8	B9000	B20	18	1.0	.0	3.2	87	0	.2	20
SEP.											
12...	2.4	B1000	B60	--	3.6	--	--	--	--	--	--
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
MAY , 1973											
08...	4.1	B20	B0	--	2.0	--	--	--	--	--	--
JUNE											
05...	3.5	B2000	230	10	2.0	--	--	--	--	--	--
JULY											
03...	2.5	72000	2000	18	2.0	--	--	--	--	--	--
AUG.											
08...	4.6	5400	B80	17	1.0	.0	.3	87	0	.2	10
SEP.											
12...	4.5	B800	B10	--	5.3	--	--	--	--	--	--
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
MAY , 1973											
08...	2.6	B50	B0	--	2.5	--	--	--	--	--	--
JUNE											
05...	7.2	B130	B2	11	28	--	--	--	--	--	--
JULY											
03...	3.7	51000	B1900	11	6.0	--	--	--	--	--	--
AUG.											
08...	5.9	B200	B20	16	2.0	.0	.3	81	0	.2	9
SEP.											
12...	4.6	B700	B2	--	4.8	--	--	--	--	--	--

B Non-ideal colony count.

DATE	TOTAL ARSENIC (AS) (UG/L)	CYANIDE (CN) (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
ST. LAWRENCE RIVER BASIN.--CONTINUED											
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
MAY , 1973											
08...	10	--	--	--	--	4.0	<.5	--	--	--	10
JUNE											
05...	10	--	--	--	--	2.0	.5	--	--	--	10
JULY											
03...	0	--	--	--	--	7.0	<.5	--	--	--	10
AUG.											
08...	0	.0	.0	10	2200	8.0	.6	90	3.0	.0	20
SEP.											
12...	<1	--	--	--	--	5.0	<.5	--	--	--	30

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION, AS BOTH MICROGRAMS AND PICOCURIES OF URANIUM EQUIVALENT PER LITER OF WATER; GROSS BETA RADIATION AS BOTH STRONTIUM-90/YTTRIUM-90 AND CESIUM-137, IN PICOCURIES PER LITER OF WATER.

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
MERRIMACK RIVER BASIN										
01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)										
SEP., 1973										
24...	--	--	2.8	--	7	--	<2.0	<1.0	--	163
NARRAGANSETT BAY										
01109145 - MT HOPE BAY NEAR NORTH TIVERTON, R.I. (LAT 41 40 25 LONG 071 12 50)										
SEP., 1973										
05...	<360	--	330	370	30000	<.4	--	<.4	<.4	2
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)										
SEP., 1973										
05...	<290	--	350	390	30400	<.4	--	.5	.5	3
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)										
SEP., 1973										
05...	<350	--	330	360	29600	<.4	--	<.4	<.4	2
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)										
SEP., 1973										
05...	<210	--	420	440	34200	<.4	--	<.4	<.4	2
CONNECTICUT RIVER BASIN										
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)										
SEP., 1973										
25...	--	<2.0	1.7	--	6	--	<2.0	<1.0	--	97
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)										
SEP., 1973										
25...	--	<2.0	2.3	--	10	--	<2.0	<1.0	--	194
01184000 - CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41 59 14 LONG 072 36 21)										
DEC., 1972										
01...	.8	--	2.6	3.2	60	.8	--	.9	1.0	18
MAR., 1973										
20...	.6	--	1.7	2.2	46	10	--	4.6	5.8	120
JULY										
12...	1.2	--	2.5	3.2	67	2.3	--	1.3	1.5	24
12...	1.2	--	2.5	3.2	67	2.3	--	1.3	1.5	24
AUG.										
09...	<1.3	--	2.9	3.7	82	<.4	--	.6	.7	9
SEP.										
13...	<1.5	--	3.1	3.9	95	.5	--	<.4	<.4	10
HUDSON RIVER BASIN										
01333300 - HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42 44 28 LONG 073 12 47)										
SEP., 1973										
26...	--	2.0	1.4	--	27	--	<2.0	1.4	--	334

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1972.--Continued

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION, AS BOTH MICROGRAMS AND PICOCURIES OF URANIUM EQUIVALENT PER LITER OF WATER; GROSS BETA RADIATION AS BOTH STRONTIUM-90/YTTRIUM-90 AND CESIUM-137, IN PICOCURIES PER LITER OF WATER.

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
ST. LAWRENCE RIVER BASIN										
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)										
AUG., 1973										
08...	<1.6	--	2.0	2.6	120	1.3	--	1.0	1.1	20
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)										
AUG., 1973										
08...	<1.5	--	2.7	3.4	110	.4	--	.9	1.0	10
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 26 LONG 073 24 20)										
AUG., 1973										
08...	<1.5	--	2.8	3.5	110	<.4	--	.7	.8	9

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
MERRIMACK RIVER BASIN											
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N. H. (LAT 43 58 34 LONG 071 40 44)											
JUNE, 1973 12...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)											
SEP., 1973 24...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
01096550 - MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42 38 20 LONG 071 22 17)											
JUNE, 1973 11...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
NARRAGANSETT BAY											
01109145 - MOUNT HOPE BAY NEAR TIVERTON R I (LAT 41 40 25 LONG 071 12 50)											
SEP., 1973 05...	.00	.0	.00	.00	.00	.00	<.01	.00	.00	.00	.00
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 16)											
SEP., 1973 05...	--	--	--	--	--	--	--	--	--	--	--
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)											
SEP., 1973 05...	.00	.0	.00	.00	.00	.00	.01	.00	.00	.00	.00
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)											
SEP., 1973 05...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
CONNECTICUT RIVER BASIN											
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)											
SEP., 1973 25...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
01141900 - CONNECTICUT RIVER AT WILDER, VT. (LAT 43 40 04 LONG 072 16 13)											
JUNE, 1973 14...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
01161200 - CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42 42 44 LONG 072 27 14)											
JUNE, 1973 14...	.00	.0	.00	<.01	.00	.00	<.01	.00	.00	.00	.00
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)											
SEP., 1973 25...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
01184000 - CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41 59 14 LONG 072 36 21)											
OCT., 1972 19...	.00	E.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN., 1973 11...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 14...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TOX-APHENE (UG/L)	TRI-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MERRIMACK RIVER BASIN											
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N. H. (LAT 43 58 34 LONG 071 40 48)											
JUNE, 1973 12...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
01096506 - NASHUA RIVER NEAR HOLLIS, N. H. (LAT 42 42 46 LONG 071 32 58)											
SEP., 1973 24...	.00	.73	.00	.00	.00	.0	.00	.0	.06	.00	.02
01096550 - MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42 38 20 LONG 071 22 17)											
JUNE, 1973 11...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
NARRAGANSETT BAY											
01109145 - MOUNT HOPE BAY NEAR TIVERTON R.I. (LAT 41 40 25 LONG 071 12 50)											
SEP., 1973 05...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
01113920 - SEEKONK RIVER AT PROVIDENCE, R.I. (LAT 41 49 02 LONG 071 23 18)											
SEP., 1973 05...	--	--	--	--	--	--	--	--	.01	.00	.02
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)											
SEP., 1973 05...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)											
SEP., 1973 05...	.00	.00	.00	.00	.00	.0	.00	.0	.01	.00	.00
CONNECTICUT RIVER BASIN											
01132500 - CONNECTICUT RIVER AT COMERFORD RESERVOIR, NEAR MONROE, N.H. (LAT 44 19 30 LONG 072 00 05)											
SEP., 1973 25...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
01141900 - CONNECTICUT RIVER AT WILDER, VT. (LAT 43 40 04 LONG 072 18 13)											
JUNE, 1973 14...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
01161200 - CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42 42 44 LONG 072 27 14)											
JUNE, 1973 14...	.00	.00	.00	.00	.00	.0	.00	.0	--	--	--
01167000 - CONNECTICUT RIVER AT TURNERS FALLS, MASS. (LAT 42 36 40 LONG 072 33 20)											
SEP., 1973 25...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
01184000 - CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41 59 14 LONG 072 36 21)											
OCT., 1972 19...	.00	.00	.00	.00	.00	E.0	.00	E.0	.00	.00	.00
JAN., 1973 11...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
JUNE 14...	.00	.00	.00	.00	.00	.0	.00	.0	--	--	--

E Estimated.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
HUDSON RIVER BASIN											
01333300 - HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42 44 28 LONG 073 12 47)											
JUNE, 1973 14...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP. 26...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
ST. LAWRENCE RIVER BASIN											
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)											
MAY , 1973 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
MAY , 1973 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)											
MAY , 1973 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
CONNECTICUT RIVER BASIN										
01184000 - CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41 59 14 LONG 072 36 21)										
OCT., 1972 19...	.0	E6	.0	.0	.0	--	.4	.0	--	.0
ST. LAWRENCE RIVER BASIN										
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)										
MAY , 1973 08...	.0	0	5.7	1.3	<.1	--	.1	.0	--	.0
AUG. 08...	.0	0	2.4	.0	.1	.0	.6	.0	.0	.0
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)										
MAY , 1973 08...	.0	0	3.8	1.2	.2	--	.3	.0	--	.0
AUG. 08...	.0	0	3.4	.0	.1	.0	1.2	.0	.0	.0
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 20)										
MAY , 1973 08...	.0	0	3.5	.9	.2	--	.0	.0	--	.0
AUG. 08...	.0	0	3.7	.0	.4	.0	.5	.0	.0	.0

E Estimated.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.—Continued

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TOX-APHENE (UG/L)	TRI-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
HUDSON RIVER BASIN											
01333300 - HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42 44 28 LONG 073 12 47)											
JUNE, 1973											
14...	.00	.00	.00	.00	.00	.0	.00	.1	.00	.00	.00
SEP.											
26...	.00	.00	.00	.00	.00	.0	.00	.0	.12	.00	1.2
ST. LAWRENCE RIVER BASIN											
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)											
MAY , 1973											
08...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
AUG.											
08...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)											
MAY , 1973											
08...	.00	.00	.00	.00	.00	.0	.00	.0	--	--	--
AUG.											
08...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 28)											
MAY , 1973											
08...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00
AUG.											
08...	.00	.00	.00	.00	.00	.0	.00	.0	.00	.00	.00

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCN IN BOTTOM DE-POSITS (UG/KG)
CONNECTICUT RIVER BASIN									
01184000 - CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41 59 14 LONG 072 36 21)									
OCT., 1972									
19...	.0	.0	--	--	--	--	E0	--	E25
ST. LAWRENCE RIVER BASIN									
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 073 25 19)									
MAY , 1973									
08...	.0	.0	--	--	--	--	0	--	140
AUG.									
08...	.0	.0	.0	.0	.0	.0	0	.0	25
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA NY (LAT 43 50 06 LONG 073 23 16)									
MAY , 1973									
08...	.0	.0	--	--	--	--	0	--	20
AUG.									
08...	.0	.0	.0	.0	.0	.0	0	.0	20
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT NY (LAT 43 55 25 LONG 073 24 28)									
MAY , 1973									
08...	.0	.0	--	--	--	--	0	--	10
AUG.									
08...	.0	.0	.0	.0	.0	.0	0	.0	15

E Estimated.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, IN MICROGRAMS PER LITRE

DATE	NUMBER OF SAMPLES	ALUMINUM (AL)	ANTIMONY (SB)	ARSENIC (AS)	BARIUM (BA)	BERYLLIUM (BE)	BISMUTH (BI)	BORON (B)	CADMIUM (CD)	CHROMIUM (CR)	COBALT (CO)	COPPER (CU)	GALLIUM (GA)	GERMANIUM (GE)	IRON (FE)
MERRIMACK RIVER BASIN															
01075000 PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43°58'34" LONG 71°40'48")															
MAY-OCT 1972	6	310	-	-	5	<1	<1	3	<6	<1	<1	58	<1	<1	350
01096550 MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42°38'20" LONG 71°22'17")															
JUN-DEC 1972	6	140	-	-	11	<1	<1	12	<12	10	<2	11	<1	<2	410
JAN-JUN 1973	6	300	-	-	13	0	<1	9	0	7	<1	12	0	<1	550
NARRAGANSETT BAY															
01109150 MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41°39'45" LONG 71°13'45")															
9- 5, 12-5-72	2	330	<1	<10	<92	<1	<2	2600	<12	2	<1	60	<200	<430	190
3-13, 6-5-73	2	320	<9	<80	<90	<1	<1	1900	<17	3	<2	<37	<180	<440	350
01115050 PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41°47'15" LONG 71°22'35")															
9- 5, 12-5-72	2	370	<5	<10	<86	<1	<2	2900	<17	2	<1	80	<190	<400	370
3-13, 6-5-73	2	420	<9	<75	<90	<1	<1	1800	<17	4	<2	<37	<170	<430	600
01116630 PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41°43'20" LONG 71°21'00")															
9- 5, 12-5-72	2	360	<5	<10	<10	<1	<2	2400	<12	2	<1	80	<210	<460	280
3-13, 6-5-73	2	320	<8	<70	<90	<1	<1	1700	<16	3	<2	<32	<170	<420	260
01117150 WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°31'45" LONG 71°24'00")															
9- 5, 12-5-72	2	370	<5	<10	<93	<1	<2	2400	<15	<2	<1	60	<200	<430	200
3-13, 6-5-73	2	320	<8	<70	<95	<1	<1	1800	<16	3	2	<35	<190	<<470	220
01117160 EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°30'45" LONG 71°21'00")															
9- 5, 12-5-72	2	600	<5	<10	<100	<1	<2	3300	<15	<2	<1	40	<210	<460	220
3-13, 6-5-73	2	190	<8	<70	<95	<1	<1	1900	<15	<2	<2	<35	<190	<480	93
CONNECTICUT RIVER BASIN															
01141900 CONNECTICUT RIVER AT WILDER, VT. (LAT 43°40'04" LONG 72°18'13")															
JUN-DEC 1972	6	120	-	-	11	<1	<2	4	<14	<2	<2	22	<1	<2	340
JAN-JUN 1973	6	300	-	-	12	0	<2	4	<2	0	<2	9	0	<2	500
01161200 CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42°42'44" LONG 72°27'14")															
JUN-DEC 1972	6	180	-	-	12	<1	<2	5	<15	3	<2	20	<1	<2	310
APR-JUN 1973	3	340	-	-	12	0	<2	5	0	2	<2	48	0	<2	510
01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41°59'14" LONG 72°36'21")															
JAN-JUN 1973	6	100	-	-	16	<1	<2	10	<2	1	<1	3	<1	<2	170
JUL-SEP 1973	3	55	-	-	20	0	<2	15	0	2	0	4	0	<2	170
HUDSON RIVER BASIN															
01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42°44'28" LONG 73°12'47")															
JUN-DEC 1972	6	910	-	-	21	<1	<4	53	<42	72	<4	12	<1	<6	1100
JAN-JUN 1973	6	1300	-	-	15	<1	<3	33	2	190	7	<3	<2	<3	1400

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, IN MICROGRAMS PER LITRE

LANTHANUM (LA)	LEAD (PB)	LITHIUM (LI)	MANGANESE (MN)	MOLYBDENUM (MO)	NICKEL (NI)	SILVER (AG)	STRONTIUM (SR)	TIN (SN)	TITANIUM (TI)	VANADIUM (YB)	YTTERBIUM	YTTRIUM (Y)	ZINC (ZN)	ZIRCONIUM (ZR)	DISSOLVED SOLIDS (RESIDUE AT 180°C) (MG/L)
MERRIMACK RIVER BASIN															
01075000 PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43°58'34" LONG 71°40'48")															
-	34	<10	93	<1	1	<1	12	1	4	<1	-	-	14	<1	40
01096550 MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42°38'20" LONG 71°22'17")															
-	5	<10	50	<1	3	<1	33	<2	5	<2	-	-	54	<2	83
-	5	1	72	0	4	0	33	<1	8	<1	-	-	10	<2	-
NARRAGANSETT BAY															
01109150 MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41°39'45" LONG 71°13'45")															
<5	9	120	5	9	<2	<3	6800	<430	10	<430	<1	<3	57	<1	30,800
<6	27	180	5	27	<3	<2	8200	<440	13	<90	<1	<1	<30	<3	29,400
01115050 PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41°47'15" LONG 71°22'35")															
<5	24	110	2	27	<2	<1	6600	<400	10	<40	<1	<3	43	<1	28,700
<6	10	180	9	23	4	<2	7800	<430	9	<90	<1	<1	<28	<3	28,900
01116630 PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41°43'20" LONG 71°21'00")															
<5	11	130	6	10	<2	<3	6600	<460	13	<460	<1	<3	52	<1	33,200
<6	15	150	6	23	4	<2	7400	<420	7	<90	<1	<1	<25	<3	28,200
01117150 WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°31'45" LONG 71°24'00")															
<5	34	120	4	22	<2	<1	8100	<430	9	<430	<1	<3	37	<1	31,000
<6	8	180	38	24	<3	<2	8200	<470	7	<100	<1	<1	<25	3	31,100
01117160 EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°30'45" LONG 71°21'00")															
<5	7	130	3	23	<2	<1	8300	<460	15	<460	<1	<1	27	<1	33,200
<6	10	160	2	22	3	<2	8400	<480	5	<100	<1	<1	<25	<3	31,700
CONNECTICUT RIVER BASIN															
01141900 CONNECTICUT RIVER AT WILDER, VT. (LAT 43°40'04" LONG 72°18'13")															
-	3	<10	40	<1	3	<1	61	<2	3	<2	-	-	<60	<2	93
-	2	1	60	0	2	0	51	<2	5	<1	-	-	10	<2	-
01161200 CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42°42'44" LONG 72°27'14")															
-	23	<10	32	<1	2	<2	70	<2	11	<2	-	-	<66	<3	102
-	90	0	42	0	2	0	50	5	11	<2	-	-	120	<2	-
01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41°59'14" LONG 72°36'21")															
-	<2	0	45	<1	4	<1	36	<2	3	1	-	-	11	<2	-
-	2	0	47	0	7	0	60	<2	1	1	-	-	23	<2	-
HUDSON RIVER BASIN															
01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42°44'28" LONG 73°12'47")															
-	9	<10	170	<1	4	3	62	<4	19	<4	-	-	<180	<6	280
-	10	3	100	<2	5	0	44	<3	8	<2	-	-	20	<5	-

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED CHLORIDE (CL) (MG/L)
MERRIMACK RIVER BASIN								
01076500 - PEMIGEWASSET RIVER AT PLYMOUTH, N.H. (LAT 43 45 33 LONG 071 41 10)								
DEC., 1972								
26...	1020	1.1	920	--	--	15	67	7.7
MAR., 1973								
26...	1130	3.0	2750	23	171	2	41	.9
APR.								
24...	1100	7.0	4790	14	181	2	30	1.5
MAY								
25...	1100	10.0	2710	14	102	2	37	5.8
JUNE								
25...	1100	18.0	1290	11	38	2	50	5.5
JULY								
24...	1100	--	484	2	2.6	1	58	7.9
AUG.								
27...	1100	19.5	239	4	2.6	2	69	9.2
SEP.								
25...	1030	9.0	527	3	4.3	2	43	3.5
01089000 - SOUCOOK RIVER NEAR CONCORD, N. H. (LAT 43 14 22 LONG 071 27 44)								
OCT., 1972								
30...	1500	6.0	55	6	.89	1	61	10
NOV.								
28...	1400	1.0	355	4	3.8	2	42	4.9
MAY , 1973								
22...	1500	10.0	455	7	8.6	2	36	3.4
01094000 - SOUHEGAN RIVER AT MERRIMACK, N. H. (LAT 42 51 27 LONG 071 30 24)								
OCT., 1972								
05...	1415	13.0	37	2	.20	1	115	--
APR., 1973								
03...	1000	3.9	2770	29	217	20	--	--
JUNE								
26...	1300	19.5	142	4	1.5	1	76	13
SEP.								
24...	1340	17.0	51	4	.55	2	112	20
01097000 - ASSABET RIVER AT MAYNARD, MASS. (LAT 42 25 55 LONG 071 27 01)								
NOV., 1972								
17...	1030	4.0	384	8	8.3	2	146	--
DEC.								
20...	1430	3.0	349	5	4.7	5	180	27
JAN., 1973								
17...	1220	2.0	201	3	1.6	1	207	30
FEB.								
26...	1315	.5	241	6	3.9	2	160	24
APR.								
11...	1430	--	624	9	15	3	131	--
MAY								
08...	1330	14.5	213	6	3.5	2	205	37
001099500 - CONCORD RIVER BELOW RIVER MEADOW BROOK, AT LOWELL, MASS. (LAT 42 38 12 LONG 071 18 09)								
JAN., 1973								
22...	1610	.5	1160	5	16	3	204	34
JUNE								
08...	1445	23.0	560	10	15	2	176	34
TAUNTON RIVER BASIN								
01108000 - TAUNTON RIVER AT STATE FARM, NEAR BRIDGEWATER, MASS. (LAT 41 56 05 LONG 070 57 18)								
NOV., 1972								
15...	1140	7.0	1680	62	281	9	102	--
JAN., 1973								
29...	1100	4.0	903	126	307	55	135	20
APR.								
12...	1225	2.0	945	9	23	5	120	20

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973 --Continued

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	TUR- BID- ITY (JTU)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
PAWCATUCK RIVER BASIN								
01117800 - WOOD RIVER NEAR ARCADIA, R. I. (LAT 41 34 26 LONG 071 43 16)								
MAY , 1973								
04...	1110	14.5	115	6	1.9	2	28	3.5
SEP.								
11...	0845	11.0	18	4	.19	1	36	3.0
CONNECTICUT RIVER BASIN								
01135500 - PASSUMPSIC RIVER AT PASSUMPSIC, VT. (LAT 44 21 56 LONG 072 02 23)								
OCT., 1972								
12...	1030	--	275	6	4.5	1	186	--
JAN., 1973								
19...	1245	.0	440	2	2.4	1	195	7.6
FEB.								
16...	1500	.0	550	2	3.0	1	163	6.2
MAR.								
23...	1400	3.0	1200	52	168	30	127	6.3
APR.								
23...	1100	10.0	3730	39	393	25	68	2.1
01137500 - AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, N. H. (LAT 44 16 08 LONG 071 37 52)								
OCT., 1972								
07...	1400	--	41	7	.79	1	50	--
DEC.								
21...	1235	.5	103	3	.83	2	47	5.0
FEB., 1973								
17...	1035	.0	106	1	.29	1	43	4.4
01144000 - WHITE RIVER AT WEST HARTFORD, VT. (LAT 43 42 51 LONG 072 25 07)								
OCT., 1972								
27...	0935	5.5	360	9	8.7	2	178	--
DEC.								
07...	1500	1.0	4380	4	58	8	78	--
22...	1100	1.0	1200	4	13	1	160	5.8
JAN., 1973								
23...	1700	.0	5380	25	363	15	92	4.5
FEB.								
15...	1330	.0	1320	4	14	20	155	6.4
MAR.								
19...	1600	2.0	5880	116	1840	40	79	3.1
APR.								
23...	1630	13.0	3640	18	177	25	84	4.3
MAY								
25...	0930	9.5	2820	1	7.6	1	119	5.2
JULY								
01...	0920	17.0	14000	1110	42000	100	94	1.0
SEP.								
20...	1455	13.0	343	6	5.6	3	181	9.5
01153500 - WILLIAMS RIVER AT BROCKWAYS MILLS, VT. (LAT 43 12 31 LONG 072 31 05)								
NOV., 1972								
22...	1445	1.0	237	5	3.2	1	83	--
JAN., 1973								
10...	1635	.5	150	3	1.2	2	87	8.4
FEB.								
15...	1655	.0	186	2	1.0	1	73	8.2
MAR.								
27...	1445	.0	612	7	12	2	52	5.2
MAY								
24...	1230	12.0	402	12	13	10	76	4.3
AUG.								
23...	1345	25.0	22	5	.30	1	122	16

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

CONNECTICUT RIVER BASIN.--CONTINUED

01167800 - BEAVER BROOK AT WILMINGTON, VT. (LAT 42 51 38 LONG 072 51 04)

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
DEC., 1972								
07...	1030	1.0	63	13	2.2	2	53	--
JAN., 1973								
16...	1600	1.0	8.5	2	.05	2	98	16
FEB.								
14...	1130	.0	9.6	1	.03	1	52	4.4
APR.								
09...	1530	5.0	25	3	.20	2	35	5.7
AUG.								
13...	1420	21.0	6.1	3	.05	3	50	7.3

01176000 - QUABOAG RIVER AT WEST BRIMFIELD, MASS. (LAT 42 10 56 LONG 072 15 51)

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT., 1972								
18...	1230	8.0	113	5	1.5	1	87	--
APR., 1973								
17...	1020	12.0	558	10	15	8	61	7.4

01181000 - WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MASS. (LAT 42 14 14 LONG 072 53 46)

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV., 1972								
25...	1530	3.0	145	2	.78	1	75	--
JAN., 1973								
25...	1055	.0	432	5	5.8	4	48	5.4
JULY								
23...	1240	13.0	46	2	.25	1	64	7.2

01183500 - WESTFIELD RIVER NEAR WESTFIELD, MASS. (LAT 42 06 24 LONG 072 41 58)

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JAN., 1973								
15...	1045	2.0	495	2	2.7	1	105	6.6

ST. LAWRENCE RIVER BASIN

04282500 - OTTER CREEK AT MIDDLEBURY, VT. (LAT 44 00 47 LONG 073 10 06)

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV., 1972								
01...	1030	5.0	782	11	23	2	189	--
DEC.								
06...	0900	1.0	1710	12	55	2	231	--
JAN., 1973								
10...	1000	.0	1100	8	24	1	250	10
FEB.								
14...	0900	.0	1500	5	20	2	156	5.6
MAR.								
21...	0900	2.0	3370	15	136	10	120	5.1
APR.								
25...	1130	13.5	1590	7	30	5	199	7.9
MAY								
31...	0910	12.0	2510	25	169	4	152	7.6
SEP.								
19...	1310	11.5	474	10	13	6	194	9.0

04288000 - MAD RIVER NEAR MORETOWN, VT. (LAT 44 16 42 LONG 072 44 37)

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT., 1972								
24...	1415	7.0	119	2	.64	1	82	--
NOV.								
28...	1315	3.0	508	11	15	1	61	--
JAN., 1973								
03...	1000	.0	324	2	1.7	1	71	5.0
MAR.								
18...	1500	12.0	2110	6	34	2	62	1.9
APR.								
17...	1445	9.5	1160	47	147	30	44	2.7
MAY								
23...	1215	9.0	950	3	7.7	1	51	2.2
AUG.								
14...	1430	14.5	82	5	1.1	1	80	5.5

INSTANTANEOUS SUSPENDED SEDIMENT AND SELECTED CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	TUR-BID-ITY (JTU)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
ST. LAWRENCE RIVER BASIN.--CONTINUED								
04292500 - LAMOILLE RIVER AT EAST GEORGIA, VT. (LAT 44 40 45 LONG 073 04 23)								
OCT., 1972 11...	1130	--	500	7	9.4	2	117	--
MAR., 1973 20...	1700	.5	3500	68	643	30	77	7.5
APR. 24...	1200	11.0	3140	31	263	20	57	3.0
SEP. 19...	1150	14.0	5540	87	1300	20	82	4.0
04293500 - MISSISQUOI RIVER NEAR RICHFORD, VT. (LAT 44 57 30 LONG 072 41 55)								
OCT., 1972 10...	1500	--	290	7	5.5	3	110	--
JAN., 1973 09...	0930	.0	580	41	64	9	81	5.0
FEB. 14...	1100	.0	660	4	7.1	2	90	6.4
MAR. 20...	1100	.5	4080	29	319	30	56	3.5
APR. 25...	0800	10.0	1370	92	340	60	55	4.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MERRIMACK RIVER BASIN										
01094340 - WHITMAN RIVER NEAR WESTMINSTER, MASS. (LAT 42 33 35 LONG 071 52 02)										
MAR., 1973										
19...	1640	173	5.0	260	120	3.2	.6	5.3	.7	4
01094380 - PHILLIPS BROOK NEAR WESTMINSTER, MASS. (LAT 42 35 28 LONG 071 51 41)										
MAR., 1973										
19...	1550	69	4.9	160	70	4.5	.5	5.8	.6	2
01094450 - NORTH NASHUA RIVER AT NORTH LEOMINSTER, MASS. (LAT 42 32 32 LONG 071 44 47)										
MAR., 1973										
21...	0945	386	5.6	530	110	6.5	1.0	13	1.7	9
01094460 - MONOOSNOC BROOK AT LEOMINSTER, MASS. (LAT 42 31 47 LONG 071 45 08)										
MAR., 1973										
19...	1430	94	5.2	250	120	3.5	.4	5.2	.5	3
01094480 - FALL BROOK AT LEOMINSTER, MASS. (LAT 42 30 32 LONG 071 44 47)										
MAR., 1973										
19...	1330	51	5.7	400	90	7.0	1.0	6.9	1.6	12
01094700 - NORTH NASHUA RIVER AT NORTH VILLAGE, MASS. (LAT 42 28 47 LONG 071 41 04)										
JUNE, 1973										
01...	0915	--	6.1	820	150	7.1	1.1	15	2.1	13
01094720 - NORTH NASHUA RIVER AT NORTH MAIN STREET, LANCASTER, MASS. (LAT 42 28 23 LONG 071 40 59)										
MAR., 1973										
21...	1100	549	6.0	590	110	6.0	1.0	13	1.8	9
01094760 - WAUSHACUM BROOK NEAR WEST BOYLSTON, MASS. (LAT 42 23 49 LONG 071 46 48)										
MAR., 1973										
19...	1230	46	5.2	90	0	9.8	1.4	14	1.5	15
01095220 - STILLWATER RIVER NEAR STERLING, MASS. (LAT 42 24 39 LONG 071 47 30)										
MAR., 1973										
19...	1200	275	4.6	110	20	3.6	.5	3.4	.7	4
01095400 - QUINAPOXET RIVER ABOVE SHAFT #1, AT OAKDALE, MASS. (LAT 42 23 11 LONG 071 48 23)										
MAR., 1973										
19...	1000	E 450	4.6	170	40	3.5	.5	4.3	.8	4
01095520 - SOUTH BRANCH NASHUA RIVER AT S. LANCASTER, MASS. (LAT 42 26 18 LONG 071 40 54)										
MAR., 1973										
21...	1215	52	7.0	610	220	10	2.1	21	2.2	12
01095880 - NONACOICUS BROOK NEAR AYER, MASS. (LAT 42 33 43 LONG 071 36 39)										
MAR., 1973										
20...	1530	115	2.5	210	30	8.8	1.4	13	1.2	15
01095915 - MULPUS BROOK NEAR SHIRLEY, MASS. (LAT 42 34 26 LONG 071 37 43)										
MAR., 1973										
20...	1630	128	4.4	130	20	5.5	.9	9.6	1.0	8

E Estimated.

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
MERRIMACK RIVER BASIN										
01094340 - WHITMAN RIVER NEAR WESTMINSTER, MASS. (LAT 42 33 35 LONG 071 52 02)										
MAR., 1973 19...	0	3	9.5	5.5	.1	.20	.00	.07	.66	--
01094380 - PHILLIPS BROOK NEAR WESTMINSTER, MASS. (LAT 42 35 28 LONG 071 51 41)										
MAR., 1973 19...	0	2	7.9	8.5	.1	.20	.00	.07	.44	--
01094450 - NORTH NASHUA RIVER AT NORTH LEOMINSTER, MASS. (LAT 42 32 32 LONG 071 44 47)										
MAR., 1973 21...	0	7	15	19	.2	.50	.02	.39	.76	--
01094460 - MONOOSNOC BROOK AT LEOMINSTER, MASS. (LAT 42 31 47 LONG 071 45 08)										
MAR., 1973 19...	0	2	7.7	10	.1	.10	.00	.06	.11	--
01094480 - FALL BROOK AT LEOMINSTER, MASS. (LAT 42 30 32 LONG 071 44 47)										
MAR., 1973 19...	0	10	11	11	.1	.50	.01	.07	.26	--
01094700 - NORTH NASHUA RIVER AT NORTH VILLAGE, MASS. (LAT 42 28 47 LONG 071 41 04)										
JUNE, 1973 01...	0	11	17	19	.2	1.2	.00	.10	1.0	--
01094720 - NORTH NASHUA RIVER AT NORTH MAIN STREET, LANCASTER, MASS. (LAT 42 28 23 LONG 071 40 59)										
MAR., 1973 21...	0	7	14	20	.1	.40	.04	.20	.35	--
01094760 - WAUSHACUM BROOK NEAR WEST BOYLSTON, MASS. (LAT 42 23 49 LONG 071 46 48)										
MAR., 1973 19...	0	12	12	24	.0	.20	.00	.09	.23	--
01095220 - STILLWATER RIVER NEAR STERLING, MASS. (LAT 42 24 39 LONG 071 47 30)										
MAR., 1973 19...	0	3	8.0	5.5	.1	.20	.00	.06	.09	--
01095400 - QUINAPOXET RIVER ABOVE SHAFT #1, AT OAKDALE, MASS. (LAT 42 23 11 LONG 071 48 23)										
MAR., 1973 19...	0	3	8.1	8.2	.0	.20	.00	.10	.17	--
01095520 - SOUTH BRANCH NASHUA RIVER AT S. LANCASTER, MASS. (LAT 42 26 18 LONG 071 40 54)										
MAR., 1973 21...	0	10	14	33	.2	2.3	.00	.10	.97	--
01095880 - NONACOICUS BROOK NEAR AYER, MASS. (LAT 42 33 43 LONG 071 36 39)										
MAR., 1973 20...	0	12	11	21	.1	.20	.00	.08	.82	--
01095915 - MULPUS BROOK NEAR SHIRLEY, MASS. (LAT 42 34 26 LONG 071 37 43)										
MAR., 1973 20...	0	7	9.5	15	.0	.20	.00	.07	.62	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
MERRIMACK RIVER BASIN										
01094340 - WHITMAN RIVER NEAR WESTMINSTER, MASS. (LAT 42 33 35 LONG 071 52 02)										
MAR., 1973 19...	--	.01	33	10	7	56	5.9	5.0	8.1	--
01094380 - PHILLIPS BROOK NEAR WESTMINSTER, MASS. (LAT 42 35 28 LONG 071 51 41)										
MAR., 1973 19...	--	.01	35	13	12	54	6.3	4.0	1.6	--
01094450 - NORTH NASHUA RIVER AT NORTH LEOMINSTER, MASS. (LAT 42 32 32 LONG 071 44 47)										
MAR., 1973 21...	--	.27	69	20	13	121	6.2	4.0	9.1	--
01094460 - MONOOSNOC BROOK AT LEOMINSTER, MASS. (LAT 42 31 47 LONG 071 45 08)										
MAR., 1973 19...	--	.04	35	10	8	52	6.1	5.0	3.8	--
01094480 - FALL BROOK AT LEOMINSTER, MASS. (LAT 42 30 32 LONG 071 44 47)										
MAR., 1973 19...	--	.02	53	22	12	89	6.7	7.0	3.8	--
01094700 - NORTH NASHUA RIVER AT NORTH VILLAGE, MASS. (LAT 42 28 47 LONG 071 41 04)										
JUNE, 1973 01...	.26	.44	80	22	12	135	6.4	17.1	8.3	--
01094720 - NORTH NASHUA RIVER AT NORTH MAIN STREET, LANCASTER, MASS. (LAT 42 28 23 LONG 071 40 59)										
MAR., 1973 21...	--	.19	68	19	12	114	6.5	4.0	4.6	--
01094760 - WAUSHACUM BROOK NEAR WEST BOYLSTON, MASS. (LAT 42 23 49 LONG 071 46 48)										
MAR., 1973 19...	--	.00	76	30	18	136	6.7	6.0	4.8	--
01095220 - STILLWATER RIVER NEAR STERLING, MASS. (LAT 42 24 39 LONG 071 47 30)										
MAR., 1973 19...	--	.01	29	11	8	42	6.0	3.0	6.4	--
01095400 - QUINAPOXET RIVER ABOVE SHAFT #1, AT OAKDALE, MASS. (LAT 42 23 11 LONG 071 48 23)										
MAR., 1973 19...	--	.01	33	11	8	49	6.3	3.0	3.2	--
01095520 - SOUTH BRANCH NASHUA RIVER AT S. LANCASTER, MASS. (LAT 42 26 18 LONG 071 40 54)										
MAR., 1973 21...	--	.52	106	34	24	198	7.0	6.0	1.9	--
01095880 - NONACOICUS BROOK NEAR AYER, MASS. (LAT 42 33 43 LONG 071 36 39)										
MAR., 1973 20...	--	.01	67	28	15	125	6.6	5.0	6.0	--
01095915 - MULPUS BROOK NEAR SHIRLEY, MASS. (LAT 42 34 26 LONG 071 37 43)										
MAR., 1973 20...	--	.00	51	17	11	89	6.5	4.0	4.0	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MERRIMACK RIVER BASIN.--CONTINUED										
01095920 - NASHUA RIVER NEAR AYER, MASS. (LAT 42 34 42 LONG 071 36 35)										
MAR., 1973										
21...	1415	1130	5.7	460	100	7.5	1.1	12	1.5	12
01096050 - SQUANNACOOK RIVER NEAR SHIRLEY, MASS. (LAT 42 34 56 LONG 071 36 37)										
MAR., 1973										
20...	1700	E600	5.3	110	40	2.8	.5	5.3	.6	3
01096500 - NASHUA RIVER AT EAST PEPPERELL, MASS. (LAT 42 40 03 LONG 071 34 32)										
MAR., 1973										
21...	1520	1720	6.0	470	100	6.5	1.0	13	1.4	14
01096503 - NISSITISSIT RIVER AT PEPPERELL, MASS. (LAT 42 40 19 LONG 071 34 39)										
MAR., 1973										
22...	1015	303	5.5	110	20	4.9	.8	4.5	.5	8
01096505 - UNKETY BROOK NEAR PEPPERELL, MASS. (LAT 42 41 23 LONG 071 32 54)										
MAR., 1973										
21...	1630	27	6.1	160	0	7.0	.8	3.7	1.1	10
01096906 - BOULDER BROOK NEAR EAST BOLTON, MASS. (LAT 42 27 10 LONG 071 34 52)										
MAY , 1973										
25...	1130	--	9.0	210	30	5.0	1.1	5.5	.6	12
01096910 - BOULDER BROOK AT EAST BOLTON, MASS. (LAT 42 27 04 LONG 071 34 39)										
MAY , 1973										
25...	1030	3.3	9.2	380	270	11	1.8	8.2	1.0	16
01097300 - NASHOBA BROOK NEAR ACTON, MASS. (LAT 42 30 39 LONG 071 24 25)										
MAY , 1973										
29...	1500	32	7.4	700	200	7.4	1.5	12	1.6	14
01100000 - MERRIMACK RIVER BELOW CONCORD RIVER AT LOWELL, MASS. (LAT 42 38 45 LONG 071 17 56)										
APR., 1973										
24...	0930	15200	4.4	420	50	4.8	.6	6.4	.6	6
01100100 - RICHARDSON BROOK NEAR LOWELL, MASS. (LAT 42 39 48 LONG 071 16 02.01)										
APR., 1973										
24...	1310	5.6	3.7	280	50	13	1.8	8.2	1.5	28
01100200 - THULL BROOK NEAR LOWELL, MASS. (LAT 42 38 58 LONG 071 15 38.01)										
APR., 1973										
24...	1010	7.2	1.9	620	80	16	3.2	33	3.3	27
01100300 - FISH BROOK NEAR ANDOVER, MASS. (LAT 42 40 47 LONG 071 13 08.01)										
APR., 1973										
24...	1045	5.6	.6	280	110	15	3.6	27	2.5	40
01100400 - BARTLETT BROOK NEAR METHUEN, MASS. (LAT 42 42 15 LONG 071 13 27.01)										
APR., 1973										
24...	1205	8.1	3.4	490	160	9.1	1.5	10	2.0	20

E Estimated.

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
MERRIMACK RIVER BASIN.--CONTINUED										
01095920 - NASHUA RIVER NEAR AYER, MASS. (LAT 42 34 42 LONG 071 36 35)										
MAR., 1973 21...	0	10	14	18	.1	.70	.00	.08	.65	--
01096050 - SQUANNACOOK RIVER NEAR SHIRLEY, MASS. (LAT 42 34 56 LONG 071 36 37)										
MAR., 1973 20...	0	2	7.2	8.0	.1	.20	.00	.10	.20	--
01096500 - NASHUA RIVER AT EAST PEPPERELL, MASS. (LAT 42 40 03 LONG 071 34 32)										
MAR., 1973 21...	0	11	15	16	.3	.80	.00	.12	.86	--
01096503 - NISSITISSIT RIVER AT PEPPERELL, MASS. (LAT 42 40 19 LONG 071 34 39)										
MAR., 1973 22...	0	7	7.7	7.9	.0	.20	.00	.08	.11	--
01096505 - UNKETY BROOK NEAR PEPPERELL, MASS. (LAT 42 41 23 LONG 071 32 54)										
MAR., 1973 21...	0	8	11	7.0	.0	.10	.00	.06	.21	--
01096906 - BOULDER BROOK NEAR EAST BOLTON, MASS. (LAT 42 27 10 LONG 071 34 52)										
MAY , 1973 25...	0	10	7.8	9.5	.2	.07	.00	.06	.08	--
01096910 - BOULDER BROOK AT EAST BOLTON, MASS. (LAT 42 27 04 LONG 071 34 39)										
MAY , 1973 25...	0	13	17	17	.2	.10	.00	.05	.09	--
01097300 - NASHOBA BROOK NEAR ACTON, MASS. (LAT 42 30 39 LONG 071 24 25)										
MAY , 1973 29...	0	11	10	21	.2	.49	.00	.17	.43	--
01100000 - MERRIMACK RIVER BELOW CONCORD RIVER AT LOWELL, MASS. (LAT 42 38 45 LONG 071 17 56)										
APR., 1973 24...	0	5	7.9	9.2	.4	.59	.00	.15	.40	--
01100100 - RICHARDSON BROOK NEAR LOWELL, MASS. (LAT 42 39 48 LONG 071 16 02.01)										
APR., 1973 24...	0	23	13	16	.3	.09	.00	.20	.45	--
01100200 - TRULL BROOK NEAR LOWELL, MASS. (LAT 42 38 58 LONG 071 15 38.01)										
APR., 1973 24...	0	22	20	56	.5	.18	.01	.30	.43	--
01100300 - FISH BROOK NEAR ANDOVER, MASS. (LAT 42 4[illegible] LONG 0[illegible] 13 08.01)										
APR., 1973 24...	0	33	11	46	.3	.19	.00	.15	.61	--
01100400 - BARTLETT BROOK NEAR METHUEN, MASS. (LAT 42 42 15 LONG 071 13 27.01)										
APR., 1973 24...	0	16	12	16	.3	.69	.01	.23	.43	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
MERRIMACK RIVER BASIN.--CONTINUED										
01095920 - NASHUA RIVER NEAR AYER, MASS. (LAT 42 34 42 LONG 071 36 35)										
MAR., 1973 21...	--	.18	69	23	13	116	6.5	5.0	6.1	--
01096050 - SQUANNACOOK RIVER NEAR SHIRLEY, MASS. (LAT 42 34 56 LONG 071 36 37)										
MAR., 1973 20...	--	.01	32	9	7	50	6.3	4.0	2.4	--
01096500 - NASHUA RIVER AT EAST PEPPERELL, MASS. (LAT 42 40 03 LONG 071 34 32)										
MAR., 1973 21...	--	2.2	70	20	9	112	6.5	6.0	7.1	--
01096503 - NISSITISSIT RIVER AT PEPPERELL, MASS. (LAT 42 40 19 LONG 071 34 39)										
MAR., 1973 22...	--	.00	37	16	9	52	6.9	2.0	1.6	--
01096505 - UNKETY BROOK NEAR PEPPERELL, MASS. (LAT 42 41 23 LONG 071 32 54)										
MAR., 1973 21...	--	.01	42	21	13	62	6.5	4.0	5.1	--
01096906 - BOULDER BROOK NEAR EAST BOLTON, MASS. (LAT 42 27 10 LONG 071 34 52)										
MAY , 1973 25...	.00	.01	45	17	7	67	7.2	--	1.2	--
01096910 - BOULDER BROOK AT EAST BOLTON, MASS. (LAT 42 27 04 LONG 071 34 39)										
MAY , 1973 25...	.00	.01	74	35	22	124	7.3	--	1.3	--
01097300 - NASHOBA BROOK NEAR ACTON, MASS. (LAT 42 30 39 LONG 071 24 25)										
MAY , 1973 29...	.00	.03	70	25	13	116	6.7	--	4.5	--
01100000 - MERRIMACK RIVER BELOW CONCORD RIVER AT LOWELL, MASS. (LAT 42 38 45 LONG 071 17 56)										
APR., 1973 24...	.01	.09	40	14	10	67	6.5	15.0	3.0	10
01100100 - RICHARDSON BROOK NEAR LOWELL, MASS. (LAT 42 39 48 LONG 071 16 02.01)										
APR., 1973 24...	.00	.00	72	40	17	114	7.2	17.0	2.8	60
01100200 - TRULL BROOK NEAR LOWELL, MASS. (LAT 42 38 58 LONG 071 15 38.01)										
APR., 1973 24...	.00	.03	148	53	31	277	7.1	16.0	3.4	160
01100300 - FISH BROOK NEAR ANDOVER, MASS. (LAT 42 40 47 LONG 071 13 08.01)										
APR., 1973 24...	.00	.02	127	52	19	246	7.7	17.0	1.3	70
01100400 - BARTLETT BROOK NEAR METHUEN, MASS. (LAT 42 42 15 LONG 071 13 27.01)										
APR., 1973 24...	.23	.36	68	29	12	116	7.4	17.0	1.3	80

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MERRIMACK RIVER BASIN.--CONTINUED										
01100450 - MERRIMACK RIVER AT 193, NEAR METHUEN, MASS. (LAT 42 42 03 LONG 071 12 37.01)										
APR., 1973										
24...	1125	--	4.3	410	40	6.8	.7	6.4	.7	11
01100562 - SPICKET RIVER NEAR METHUEN, MASS. (LAT 42 44 35 LONG 071 12 32.01)										
APR., 1973										
24...	1520	94	3.4	720	120	11	1.3	14	1.9	17
01100565 - SPICKET RIVER AT LAWRENCE, MASS. (LAT 42 42 33 LONG 071 09 07.01)										
APR., 1973										
24...	1640	103	3.3	760	70	11	1.6	17	2.1	20
01100576 - SHAWSHEEN RIVER AT BEDFORD, MASS. (LAT 42 29 24 LONG 071 15 25.01)										
APR., 1973										
20...	1510	E20	7.6	1500	180	22	3.7	31	3.5	34
01100578 - SHAWSHEEN RIVER AT PAGE ROAD, BEDFORD, MASS. (LAT 42 29 35 LONG 071 15 25.01)										
APR., 1973										
20...	0900	21	8.0	1600	220	22	3.7	31	3.5	35
01100582 - SHAWSHEEN RIVER AT ROUTE 62, NEAR BEDFORD, MASS. (LAT 42 29 53 LONG 071 15 23.01)										
APR., 1973										
20...	0945	24	6.9	1400	180	20	3.5	30	3.3	34
01100590 - VINE BROOK AT ROUTE 62, NEAR BEDFORD, MASS. (LAT 42 30 04 LONG 071 14 49.01)										
APR., 1973										
20...	1030	15	1.4	450	100	25	4.0	29	3.0	45
01100592 - SHAWSHEEN RIVER AT MIDDLESEX TURNPIKE, BEDFORD, MASS. (LAT 42 31 04 LONG 071 14 44)										
APR., 1973										
20...	1130	44	4.6	2400	290	19	3.6	29	3.2	34
01100600 - SHAWSHEEN RIVER NEAR WILMINGTON, MASS. (LAT 42 34 05 LONG 071 12 55.01)										
APR., 1973										
20...	0910	57	3.8	640	90	18	3.4	28	2.8	33
01100610 - STRONG WATER BROOK NEAR TEWKSBURY, MASS. (LAT 42 35 46 LONG 071 11 47.01)										
APR., 1973										
20...	1145	16	4.1	570	80	15	2.9	22	3.0	23
01100620 - SHAWSHEEN RIVER AT ANDOVER, MASS. (LAT 42 38 50 LONG 071 09 05.01)										
APR., 1973										
20...	1315	141	3.4	600	80	17	2.9	27	2.8	28
01100630 - SHAWSHEEN RIVER NEAR NORTH ANDOVER, MASS. (LAT 42 40 48 LONG 071 08 45.01)										
APR., 1973										
20...	1545	143	3.8	640	90	14	2.9	28	2.9	30
01100660 - BARE MEADOW BROOK NEAR METHUEN, MASS. (LAT 42 45 32 LONG 071 08 05.01)										
APR., 1973										
24...	1415	7.9	5.5	1300	180	14	2.1	14	2.2	28

E Estimated.

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
MERRIMACK RIVER BASIN.--CONTINUED										
01100450 - MERRIMACK RIVER AT I93, NEAR METHUEN, MASS. (LAT 42 42 03 LONG 071 12 37.01)										
APR., 1973 24...	0	9	8.0	10	.4	.59	.00	.09	.85	--
01100562 - SPICKET RIVER NEAR METHUEN, MASS. (LAT 42 44 35 LONG 071 12 32.01)										
APR., 1973 24...	0	14	10	25	.4	.89	.00	.13	.62	--
01100565 - SPICKET RIVER AT LAWRENCE, MASS. (LAT 42 42 33 LONG 071 09 07.01)										
APR., 1973 24...	0	16	12	30	.4	.59	.00	.18	.58	--
01100576 - SHAWSHEEN RIVER AT BEDFORD, MASS. (LAT 42 29 28 LONG 071 15 25.01)										
APR., 1973 20...	0	28	26	52	.3	.89	.01	.14	.59	--
01100578 - SHAWSHEEN RIVER AT PAGE ROAD, BEDFORD, MASS. (LAT 42 29 35 LONG 071 15 25.01)										
APR., 1973 20...	0	29	26	54	.6	.89	.00	.10	.55	--
01100582 - SHAWSHEEN RIVER AT ROUTE 62, NEAR BEDFORD, MASS. (LAT 42 29 53 LONG 071 15 23.01)										
APR., 1973 20...	0	28	24	49	.3	.79	.00	.12	.43	--
01100590 - VINE BROOK AT ROUTE 62, NEAR BEDFORD, MASS. (LAT 42 30 04 LONG 071 14 49.01)										
APR., 1973 20...	0	37	24	50	.4	.49	.01	.12	.31	--
01100592 - SHAWSHEEN RIVER AT MIDDLESEX TURNPIKE, BEDFORD, MASS. (LAT 42 31 04 LONG 071 14 44)										
APR., 1973 20...	0	28	24	52	.4	.69	.00	.10	.58	--
01100600 - SHAWSHEEN RIVER NEAR WILMINGTON, MASS. (LAT 42 34 05 LONG 071 12 55.01)										
APR., 1973 20...	0	27	22	45	.3	.69	.00	.10	.32	--
01100610 - STRONG WATER BROOK NEAR TEWKSBURY, MASS. (LAT 42 35 46 LONG 071 11 47.01)										
APR., 1973 20...	0	19	19	39	.3	.79	.00	.15	.47	--
01100620 - SHAWSHEEN RIVER AT ANDOVER, MASS. (LAT 42 38 50 LONG 071 09 05.01)										
APR., 1973 20...	0	23	19	44	.3	.69	.00	.12	.36	--
01100630 - SHAWSHEEN RIVER NEAR NORTH ANDOVER, MASS. (LAT 42 40 48 LONG 071 08 45.01)										
APR., 1973 20...	0	25	19	45	.3	.68	.02	.15	.38	--
01100660 - BARE MEADOW BROOK NEAR METHUEN, MASS. (LAT 42 45 32 LONG 071 08 05.01)										
APR., 1973 24...	0	23	15	24	.3	.39	.01	.19	.49	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
MERRIMACK RIVER BASIN.--CONTINUED										
01100450 - MERRIMACK RIVER AT 193, NEAR METHUEN, MASS. (LAT 42 42 03 LONG 071 12 37.01)										
APR., 1973										
24...	.02	.07	46	20	11	69	6.9	15.0	2.2	20
01100562 - SPICKET RIVER NEAR METHUEN, MASS. (LAT 42 44 35 LONG 071 12 32.01)										
APR., 1973										
24...	.11	.16	80	33	19	142	6.9	17.0	3.4	35
01100565 - SPICKET RIVER AT LAWRENCE, MASS. (LAT 42 42 33 LONG 071 09 07.01)										
APR., 1973										
24...	.09	.18	90	34	18	167	7.4	18.0	1.3	45
01100576 - SHAWSHEEN RIVER AT BEDFORD, MASS. (LAT 42 29 28 LONG 071 15 25.01)										
APR., 1973										
20...	.00	.05	167	70	42	299	7.4	17.0	2.2	50
01100578 - SHAWSHEEN RIVER AT PAGE ROAD, BEDFORD, MASS. (LAT 42 29 35 LONG 071 15 25.01)										
APR., 1973										
20...	.00	.06	170	70	41	291	7.3	11.0	2.8	50
01100582 - SHAWSHEEN RIVER AT ROUTE 62, NEAR BEDFORD, MASS. (LAT 42 29 53 LONG 071 15 23.01)										
APR., 1973										
20...	.16	.27	158	64	36	281	7.2	11.0	3.4	50
01100590 - VINE BROOK AT ROUTE 62, NEAR BEDFORD, MASS. (LAT 42 30 04 LONG 071 14 49.01)										
APR., 1973										
20...	.01	.03	161	79	42	246	7.4	11.0	2.9	30
01100592 - SHAWSHEEN RIVER AT MIDDLESEX TURNPIKE, BEDFORD, MASS. (LAT 42 31 04 LONG 071 14 44)										
APR., 1973										
20...	.08	.18	156	62	34	286	7.1	14.0	4.3	40
01100600 - SHAWSHEEN RIVER NEAR WILMINGTON, MASS. (LAT 42 34 05 LONG 071 12 55.01)										
APR., 1973										
20...	.02	.08	143	59	32	269	7.2	13.5	3.3	35
01100610 - STRONG WATER BROOK NEAR TEWKSBURY, MASS. (LAT 42 35 46 LONG 071 11 47.01)										
APR., 1973										
20...	.08	.15	121	49	31	217	7.0	14.5	3.7	55
01100620 - SHAWSHEEN RIVER AT ANDOVER, MASS. (LAT 42 38 50 LONG 071 09 05.01)										
APR., 1973										
20...	.06	.12	134	54	31	246	7.1	15.5	3.6	40
01100630 - SHAWSHEEN RIVER NEAR NORTH ANDOVER, MASS. (LAT 42 40 48 LONG 071 08 45.01)										
APR., 1973										
20...	.05	.10	134	47	22	253	7.2	16.0	3.0	45
01100660 - BARE MEADOW BROOK NEAR METHUEN, MASS. (LAT 42 45 32 LONG 071 08 05.01)										
APR., 1973										
24...	.00	.06	93	44	21	170	7.1	17.0	3.6	80

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MERRIMACK RIVER BASIN.--CONTINUED										
01100670 - MERRIMACK RIVER AT I495, NEAR HAVERHILL, MASS. (LAT 42 46 06 LONG 071 07 17.01)										
APR., 1973										
24...	1215	--	4.2	540	40	5.0	.9	7.9	.8	7
01100684 - LITTLE RIVER AT WESTVILLE, N.H. (LAT 42 49 06 LONG 071 06 50.01)										
APR., 1973										
26...	1100	--	5.4	640	30	7.1	1.5	11	1.1	16
01100690 - LITTLE RIVER AT HAVERHILL, MASS. (LAT 42 46 38 LONG 071 05 20.01)										
APR., 1973										
26...	0930	--	5.5	860	70	9.3	1.9	14	1.4	20
01100700 - EAST MEADOW RIVER NEAR HAVERHILL, MASS. (LAT 42 48 41 LONG 071 01 59.01)										
APR., 1973										
24...	1415	16	6.2	490	50	13	2.1	13	1.3	25
01100750 - MERRIMACK RIVER AT WEST NEWBURY, MASS. (LAT 42 48 38 LONG 071 00 02.01)										
APR., 1973										
24...	1310	--	4.2	570	30	5.5	.8	7.7	.8	9
MAY										
21...	1100	--	4.3	--	100	5.0	.9	7.5	.8	10
01100804 - COBBLER BROOK AT MERRIMAC, MASS. (LAT 42 49 55 LONG 070 59 55.01)										
APR., 1973										
24...	1730	4.6	7.8	1000	100	14	1.9	28	2.0	36
01100820 - ARTICHOKE RIVER NEAR NEWBURYPORT, MASS. (LAT 42 48 47 LONG 070 55 56.01)										
APR., 1973										
26...	1630	E2.0	.4	200	0	7.7	1.5	7.7	.6	17
01100840 - POWWOW RIVER NEAR AMESBURY, MASS. (LAT 42 51 42 LONG 070 59 02.01)										
APR., 1973										
25...	1830	95	.8	530	50	5.2	.9	6.1	.8	10
01100850 - POWWOW RIVER AT AMESBURY, MASS. (LAT 42 50 48 LONG 070 55 18.01)										
APR., 1973										
25...	1145	159	1.6	730	30	6.2	1.3	7.4	1.0	14
01100870 - MERRIMACK RIVER AT NEWBURYPORT, MASS. (LAT 42 48 56 LONG 070 52 24.01)										
APR., 1973										
24...	1055	--	4.2	540	30	6.5	1.3	11	1.0	9
MYSTIC RIVER BASIN										
01102460 - ABERJONA RIVER NEAR WOBURN, MASS. (LAT 42 29 29 LONG 071 07 46.01)										
JUNE, 1973										
06...	1145	8.0	7.7	1500	1300	36	7.0	64	5.1	43
01102495 - HORN POND BROOK AT WINCHESTER, MASS. (LAT 42 27 20 LONG 071 08 19)										
JUNE, 1973										
06...	1315	2.0	1.1	480	130	25	4.3	46	3.6	46

E Estimated.

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
MERRIMACK RIVER BASIN.--CONTINUED										
01100670 - MERRIMACK RIVER AT 1495, NEAR HAVERHILL, MASS. (LAT 42 46 06 LONG 071 07 17.01)										
APR., 1973 24...	0	6	8.8	12	.4	.80	.00	.05	.87	--
01100684 - LITTLE RIVER AT WESTVILLE, N.H. (LAT 42 49 06 LONG 071 06 50.01)										
APR., 1973 26...	0	13	10	19	.3	.19	.00	.17	.18	--
01100690 - LITTLE RIVER AT HAVERHILL, MASS. (LAT 42 46 38 LONG 071 05 20.01)										
APR., 1973 26...	0	16	12	25	.3	.29	.00	.11	.33	--
01100700 - EAST MEADOW RIVER NEAR HAVERHILL, MASS. (LAT 42 48 41 LONG 071 01 59.01)										
APR., 1973 24...	0	21	12	24	.3	.09	.00	.14	.30	--
01100750 - MERRIMACK RIVER AT WEST NEWBURY, MASS. (LAT 42 48 38 LONG 071 00 02.01)										
APR., 1973 24...	0	7	8.7	13	.4	.59	.01	.11	.64	--
MAY 21...	0	8	7.8	12	.2	.49	.00	.07	.51	--
01100804 - COBBLER BROOK AT MERRIMAC, MASS. (LAT 42 49 55 LONG 070 59 55.01)										
APR., 1973 24...	0	30	18	34	.3	2.6	1.9	.17	.82	--
01100820 - ARTICHOKE RIVER NEAR NEWBURYPORT, MASS. (LAT 42 48 47 LONG 070 55 56.01)										
APR., 1973 26...	0	14	8.5	13	.1	.05	.06	.07	.37	--
01100840 - POWWOW RIVER NEAR AMESBURY, MASS. (LAT 42 51 42 LONG 070 59 02.01)										
APR., 1973 25...	0	8	6.5	11	.3	.01	.00	.17	.12	--
01100850 - POWWOW RIVER AT AMESBURY, MASS. (LAT 42 50 48 LONG 070 55 18.01)										
APR., 1973 25...	0	11	8.5	12	.3	.18	.00	.10	.45	--
01100870 - MERRIMACK RIVER AT NEWBURYPORT, MASS. (LAT 42 48 56 LONG 070 52 24.01)										
APR., 1973 24...	0	7	8.5	18	.4	.59	.00	.06	.57	--
MYSTIC RIVER BASIN										
01102460 - ABERJONA RIVER NEAR WOBURN, MASS. (LAT 42 29 29 LONG 071 07 46.01)										
JUNE, 1973 06...	0	35	100	87	.5	5.7	.16	5.8	1.4	--
01102495 - HORN POND BROOK AT WINCHESTER, MASS. (LAT 42 27 20 LONG 071 08 19)										
JUNE, 1973 06...	0	38	20	85	.2	.66	.24	.05	.59	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
MERRIMACK RIVER BASIN.--CONTINUED										
01100670 - MERRIMACK RIVER AT 1495, NEAR HAVERHILL, MASS. (LAT 42 46 06 LONG 071 07 17.01)										
APR., 1973 24...	.05	.12	47	16	10	82	6.4	14.3	4.5	10
01100684 - LITTLE RIVER AT WESTVILLE, N.H. (LAT 42 49 06 LONG 071 06 50.01)										
APR., 1973 26...	.00	.02	64	24	11	114	7.3	11.5	1.3	80
01100690 - LITTLE RIVER AT HAVERHILL, MASS. (LAT 42 46 38 LONG 071 05 20.01)										
APR., 1973 26...	.00	.03	81	31	15	142	6.9	14.0	4.0	70
01100700 - EAST MEADOW RIVER NEAR HAVERHILL, MASS. (LAT 42 48 41 LONG 071 01 59.01)										
APR., 1973 24...	.00	.02	85	41	21	145	7.1	17.2	3.2	60
01100750 - MERRIMACK RIVER AT WEST NEWBURY, MASS. (LAT 42 48 38 LONG 071 00 02.01)										
APR., 1973 24...	.03	.10	48	17	10	81	6.2	14.5	9.1	10
MAY 21...	.04	.13	46	16	8	79	6.6	13.4	4.0	--
01100804 - COBBLER BROOK AT MERRIMAC, MASS. (LAT 42 49 55 LONG 070 59 55.01)										
APR., 1973 24...	.16	.26	136	43	13	230	6.8	16.0	9.1	70
01100820 - ARTICHOKE RIVER NEAR NEWBURYPORT, MASS. (LAT 42 48 47 LONG 070 55 56.01)										
APR., 1973 26...	.00	.01	48	25	11	92	6.7	15.0	5.4	5
01100840 - POWWOW RIVER NEAR AMESBURY, MASS. (LAT 42 51 42 LONG 070 59 02.01)										
APR., 1973 25...	.00	.01	37	17	8	68	6.5	18.0	5.1	60
01100850 - POWWOW RIVER AT AMESBURY, MASS. (LAT 42 50 48 LONG 070 55 18.01)										
APR., 1973 25...	.01	.06	46	21	9	84	6.5	17.5	7.1	50
01100870 - MERRIMACK RIVER AT NEWBURYPORT, MASS. (LAT 42 48 56 LONG 070 52 24.01)										
APR., 1973 24...	.02	.12	58	22	14	103	6.2	14.0	9.1	5
MYSTIC RIVER BASIN										
01102460 - ABERJONA RIVER NEAR WOBURN, MASS. (LAT 42 29 29 LONG 071 07 46.01)										
JUNE, 1973 06...	.00	.05	361	120	83	620	6.6	16.8	17	80
01102495 - HORN POND BROOK AT WINCHESTER, MASS. (LAT 42 27 20 LONG 071 08 19)										
JUNE, 1973 06...	.00	.03	211	80	42	400	7.4	20.2	2.9	5

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MYSTIC RIVER BASIN.--CONTINUED										
01102500 - ABERJONA RIVER AT WINCHESTER, MASS. (LAT 42 26 50 LONG 071 08 22.01)										
JUNE, 1973										
06...	1430	14	7.6	1400	400	38	7.2	66	4.7	24
01103015 - MILL BROOK AT ARLINGTON, MASS. (LAT 42 25 20 LONG 071 08 59.01)										
JUNE, 1973										
06...	1630	3.9	6.9	1400	120	26	5.7	40	4.8	46
01103025 - ALEWIFE BROOK NEAR ARLINGTON, MASS. (LAT 42 24 25 LONG 071 08 04)										
JUNE, 1973										
06...	1900	4.9	4.0	1400	200	40	10	47	5.6	98
01103050 - MYSTIC RIVER AT AMELIA EARHART DAM, SOMERVILLE, MASS. (LAT 42 23 44 LONG 071 04 32)										
JUNE, 1973										
07...	1130	--	1.8	1300	230	31	11	88	5.4	43
WEWEANTIC RIVER BASIN										
01105905 - SIPPICAN RIVER NEAR MARION, MASS. (LAT 41 44 05 LONG 070 46 30)										
OCT., 1972										
13...	1030	44	7.8	--	--	3.5	1.0	6.1	1.3	5
AUG., 1973										
08...	1345	19	7.7	1100	40	2.6	1.2	6.4	1.2	4
AUCOOT CREEK BASIN										
01105908 - AUCOOT CREEK NEAR MARION, MASS. (LAT 41 41 05 LONG 070 46 25)										
AUG., 1973										
08...	1430	.68	9.3	600	40	1.4	1.0	11	3.4	4
MATTAPOISETT RIVER BASIN										
01105911 - MATTAPOISETT RIVER AT ROUNSEVILLE ROAD, NEAR ROCHESTER, MASS. (LAT 41 44 10 LONG 070 51 45)										
OCT., 1972										
13...	0920	17	4.9	--	--	4.1	1.0	5.3	.9	6
AUG., 1973										
08...	1530	7.7	4.8	1300	50	3.0	1.1	5.7	.8	6
01105914 - MATTAPOISETT RIVER AT TINKHAM LANE, MATTAPOISETT, MASS. (LAT 41 41 05 LONG 070 50 30)										
AUG., 1973										
09...	0850	9.2	6.6	1300	30	3.0	1.2	6.0	.8	7
01105921 - SWIFT BROOK NEAR MATTAPOISETT MASS (LAT 41 38 50 LONG 070 49 40.01)										
AUG., 1973										
09...	0950	.07	19	1000	40	--	1.2	9.4	1.7	1
ACUSHNET RIVER BASIN										
01105924 - ACUSHNET RIVER AT LEONARD STREET, ACUSHNET, MASS. (LAT 41 43 25 LONG 070 53 50)										
AUG., 1973										
09...	1045	4.5	6.5	700	290	4.2	1.2	5.9	1.5	11

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
MYSTIC RIVER BASIN.--CONTINUED										
01102500 - ABERJONA RIVER AT WINCHESTER, MASS. (LAT 42 26 50 LONG 071 08 22.01)										
JUNE, 1973 06...	0	20	56	110	.4	7.0	.02	.13	5.6	--
01103015 - MILL BROOK AT ARLINGTON, MASS. (LAT 42 25 20 LONG 071 08 59.01)										
JUNE, 1973 06...	0	38	23	75	.2	2.0	.01	.13	.75	--
01103025 - ALEWIFE BROOK NEAR ARLINGTON, MASS. (LAT 42 24 25 LONG 071 08 04)										
JUNE, 1973 06...	0	80	41	82	.2	2.0	.00	.14	1.4	--
01103050 - MYSTIC RIVER AT AMELIA EARHART DAM, SOMERVILLE, MASS. (LAT 42 23 44 LONG 071 04 32)										
JUNE, 1973 07...	0	35	62	150	.3	2.6	.01	.11	1.8	--
WEWEANTIC RIVER BASIN										
01105905 - SIPPICAN RIVER NEAR MARION, MASS. (LAT 41 44 05 LONG 070 46 30)										
OCT., 1972 13...	0	4	5.9	11	.0	.08	--	.40	--	--
AUG., 1973 08...	0	3	13	10	.3	.16	.01	.13	--	.35
AUCOOT CREEK BASIN										
01105908 - AUCOOT CREEK NEAR MARION, MASS. (LAT 41 41 05 LONG 070 46 25)										
AUG., 1973 08...	0	3	17	12	.3	.04	.01	.24	--	.52
MATTAPOISETT RIVER BASIN										
01105911 - MATTAPOISETT RIVER AT ROUNSEVILLE ROAD, NEAR ROCHESTER, MASS. (LAT 41 44 10 LONG 070 51 45)										
OCT., 1972 13...	0	5	6.7	11	.0	.09	--	.40	--	--
AUG., 1973 08...	0	5	11	8.5	.3	.12	.00	.09	--	.26
01105914 - MATTAPOISETT RIVER AT TINKHAM LANE, MATTAPOISETT, MASS. (LAT 41 41 05 LONG 070 50 30)										
AUG., 1973 09...	0	6	6.1	9.0	.3	.21	.00	.10	--	.20
01105921 - SWIFT BROOK NEAR MATTAPOISETT MASS (LAT 41 38 50 LONG 070 49 40.01)										
AUG., 1973 09...	0	1	40	18	.6	.00	.02	.27	--	1.4
ACUSHNET RIVER BASIN										
01105924 - ACUSHNET RIVER AT LEONARD STREET, ACUSHNET, MASS. (LAT 41 43 25 LONG 070 53 50)										
AUG., 1973 09...	0	9	10	9.0	.3	.21	.00	.10	--	.50

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
MYSTIC RIVER BASIN.--CONTINUED										
01102500 - ABERJONA RIVER AT WINCHESTER, MASS. (LAT 42 26 50 LONG 071 08 22.01)										
JUNE, 1973										
06...	.00	.07	333	130	110	615	7.3	19.5	1.9	20
01103015 - MILL BROOK AT ARLINGTON, MASS. (LAT 42 25 20 LONG 071 08 59.01)										
JUNE, 1973										
06...	.09	.19	214	86	51	392	7.2	19.0	4.6	23
01103025 - ALEWIFE BROOK NEAR ARLINGTON, MASS. (LAT 42 24 25 LONG 071 08 04)										
JUNE, 1973										
06...	.08	.23	288	140	61	521	7.3	19.6	7.9	5
01103050 - MYSTIC RIVER AT AMELIA EARHART DAM, SOMERVILLE, MASS. (LAT 42 23 44 LONG 071 04 32)										
JUNE, 1973										
07...	.06	.14	382	120	87	708	6.9	20.0	8.7	13
WEWEANTIC RIVER BASIN										
01105905 - SIPPICAN RIVER NEAR MARION, MASS. (LAT 41 44 05 LONG 070 46 30)										
OCT., 1972										
13...	--	--	40	13	9	61	5.9	11.0	10	--
AUG., 1973										
08...	.05	.06	45	11	8	61	5.9	23.0	8.1	160
AUCOOT CREEK BASIN										
01105908 - AUCOOT CREEK NEAR MARION, MASS. (LAT 41 41 05 LONG 070 46 25)										
AUG., 1973										
08...	.04	.05	58	8	4	63	5.1	22.0	51	200
MATTAPOISETT RIVER BASIN										
01105911 - MATTAPOISETT RIVER AT ROUNSEVILLE ROAD, NEAR ROCHESTER, MASS. (LAT 41 44 10 LONG 070 51 45)										
OCT., 1972										
13...	--	--	39	14	9	56	6.2	11.0	6.1	--
AUG., 1973										
08...	.03	.04	39	12	7	57	6.0	25.0	9.6	100
01105914 - MATTAPOISETT RIVER AT TINKHAM LANE, MATTAPOISETT, MASS. (LAT 41 41 05 LONG 070 50 30)										
AUG., 1973										
09...	.04	.06	38	12	7	60	6.3	22.0	5.6	110
01105921 - SWIFT BROOK NEAR MATTAPOISETT MASS (LAT 41 38 50 LONG 070 49 40.01)										
AUG., 1973										
09...	.09	.09	--	--	--	84	4.6	20.0	40	600
ACUSHNET RIVER BASIN										
01105924 - ACUSHNET RIVER AT LEONARD STREET, ACUSHNET, MASS. (LAT 41 43 25 LONG 070 53 50)										
AUG., 1973										
09...	.02	.03	45	15	6	65	6.6	25.0	4.4	100

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

ACUSHNET RIVER BASIN.--CONTINUED

01105926 - ACUSHNET RIVER AT ACUSHNET, MASS. (LAT 41 41 45 LONG 070 54 52)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT., 1972 12...	1530	26	6.8	--	--	5.9	1.7	11	1.8	13
AUG., 1973 09...	1120	8.1	6.6	1400	90	6.2	1.7	7.4	1.5	17

BUTTONWOOD BROOK BASIN

01105928 - BUTTONWOOD BROOK NEAR SOUTH DARTMOUTH, MASS. (LAT 41 36 15 LONG 070 57 20)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
AUG., 1973 09...	1215	.69	12	600	50	17	5.2	17	4.2	60

SLOCUMS RIVER BASIN

01105933 - PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MASS. (LAT 41 35 07 LONG 070 59 25)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT., 1972 12...	1020	32	11	--	--	4.0	1.7	12	3.3	13
AUG., 1973 09...	1250	7.8	11	600	110	6.1	2.5	12	3.0	20

01105935 - DESTRUCTION BROOK NEAR SOUTH DARTMOUTH, MASS. (LAT 41 34 20 LONG 071 00 50)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
AUG., 1973 09...	1330	1.7	9.5	700	20	2.5	1.2	5.8	1.0	4

EAST BRANCH WESTPORT RIVER BASIN

01105937 - SHINGLE ISLAND RIVER NEAR NORTH DARTMOUTH, MASS. (LAT 41 40 50 LONG 071 01 05)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
AUG., 1973 09...	1430	2.2	13	1800	90	2.0	1.4	5.3	1.5	6

01105943 - SHINGLE ISLAND RIVER AT HIXVILLE RD, NORTH DARTMOUTH, MASS. (LAT 41 40 10 LONG 071 01 32)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT., 1972 12...	1120	24	11	--	--	3.8	1.3	4.9	1.0	4
AUG., 1973 09...	1510	5.1	10	1400	150	4.0	1.7	5.2	1.5	8

01105947 - BREAD AND CHEESE BROOK AT HEAD OF WESTPORT, MASS. (LAT 41 38 00 LONG 071 03 46)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT., 1972 12...	0820	12	10	--	--	3.8	1.1	11	1.0	2
AUG., 1973 09...	1545	1.8	13	1900	80	3.5	1.7	13	1.8	4

01105950 - KIRBY BROOK NEAR HEAD OF WESTPORT, MASS. (LAT 41 36 02 LONG 071 04 25)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
AUG., 1973 09...	1615	.20	17	1400	60	5.0	2.0	11	2.3	9

WEST BRANCH WESTPORT RIVER BASIN

01106000 - ADAMSVILLE BROOK AT ADAMSVILLE, RI (LAT 41 33 30 LONG 071 07 47)

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT., 1972 12...	0930	14	8.5	--	--	4.1	1.1	7.6	1.6	6
AUG., 1973 09...	1720	2.5	16	1500	40	2.9	1.5	8.1	1.9	7

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
ACUSHNET RIVER BASIN.--CONTINUED										
01105926 - ACUSHNET RIVER AT ACUSHNET, MASS. (LAT 41 41 45 LONG 070 54 52)										
OCT.. 1972 12...	0	11	13	15	.0	.90	--	.57	--	--
AUG.. 1973 09...	0	14	12	12	.4	.18	.01	.09	--	.48
BUTTONWOOD BROOK BASIN										
01105928 - BUTTONWOOD BROOK NEAR SOUTH DARTMOUTH, MASS. (LAT 41 36 15 LONG 070 57 20)										
AUG.. 1973 09...	0	49	22	20	.4	1.6	.01	.05	--	.48
SLOCUMS RIVER BASIN										
01105933 - PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MASS. (LAT 41 35 07 LONG 070 59 25)										
OCT.. 1972 12...	0	11	7.2	21	.0	.20	--	.44	--	--
AUG.. 1973 09...	0	16	8.0	19	.4	.36	.01	.20	--	.84
01105935 - DESTRUCTION BROOK NEAR SOUTH DARTMOUTH, MASS. (LAT 41 34 20 LONG 071 00 50)										
AUG.. 1973 09...	0	3	7.5	8.7	.3	.18	.01	.14	--	.16
EAST BRANCH WESTPORT RIVER BASIN										
01105937 - SHINGLE ISLAND RIVER NEAR NORTH DARTMOUTH, MASS. (LAT 41 40 50 LONG 071 01 05)										
AUG.. 1973 09...	0	5	7.2	8.0	.4	.30	.01	.28	--	.28
01105943 - SHINGLE ISLAND RIVER AT HIXVILLE RD, NORTH DARTMOUTH, MASS. (LAT 41 40 10 LONG 071 01 32)										
OCT.. 1972 12...	0	3	8.5	9.2	.0	.10	--	--	--	--
AUG.. 1973 09...	0	7	16	7.5	.3	.20	.00	.14	--	.47
01105947 - BREAD AND CHEESE BROOK AT HEAD OF WESTPORT, MASS. (LAT 41 38 00 LONG 071 03 46)										
OCT.. 1972 12...	0	2	7.4	19	.0	.40	--	.65	--	--
AUG.. 1973 09...	0	3	10	21	.4	.57	.01	.23	--	.47
01105950 - KIRBY BROOK NEAR HEAD OF WESTPORT, MASS. (LAT 41 36 02 LONG 071 04 25)										
AUG.. 1973 09...	0	7	14	19	.4	.63	.01	.11	--	.39
WEST BRANCH WESTPORT RIVER BASIN										
01106000 - ADAMSVILLE BROOK AT ADAMSVILLE, RI (LAT 41 33 30 LONG 071 07 47)										
OCT.. 1972 12...	0	5	6.0	13	.0	.09	--	.40	--	--
AUG.. 1973 09...	0	6	6.0	14	.4	.30	.01	.16	--	.39

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
ACUSHNET RIVER BASIN.--CONTINUED										
01105926 - ACUSHNET RIVER AT ACUSHNET, MASS. (LAT 41 41 45 LONG 070 54 52)										
OCT., 1972										
12...	--	--	66	22	11	89	6.7	12.0	4.2	--
AUG., 1973										
09...	.03	.05	57	22	9	87	6.5	24.0	8.6	110
BUTIONWOOD BROOK BASIN										
01105928 - BUTTONWOOD BROOK NEAR SOUTH DARTMOUTH, MASS. (LAT 41 36 15 LONG 070 57 20)										
AUG., 1973										
09...	.06	.09	135	64	15	227	7.1	22.0	7.6	20
SLOCUMS RIVER BASIN										
01105933 - PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MASS. (LAT 41 35 07 LONG 070 59 25)										
OCT., 1972										
12...	--	--	70	17	6	103	6.2	11.0	13	--
AUG., 1973										
09...	.06	.07	74	26	9	123	6.5	22.0	10	320
01105935 - DESTRUCTION BROOK NEAR SOUTH DARTMOUTH, MASS. (LAT 41 34 20 LONG 071 00 50)										
AUG., 1973										
09...	.03	.02	40	11	8	57	5.5	23.0	20	200
EAST BRANCH WESTPORT RIVER BASIN										
01105937 - SHINGLE ISLAND RIVER NEAR NORTH DARTMOUTH, MASS. (LAT 41 40 50 LONG 071 01 05)										
AUG., 1973										
09...	.04	.04	44	11	6	60	5.8	21.0	15	150
01105943 - SHINGLE ISLAND RIVER AT HIXVILLE RD, NORTH DARTMOUTH, MASS. (LAT 41 40 10 LONG 071 01 32)										
OCT., 1972										
12...	--	--	42	15	12	62	5.5	10.0	20	--
AUG., 1973										
09...	.02	.04	51	17	10	70	6.1	22.0	10	120
01105947 - BREAD AND CHEESE BROOK AT HEAD OF WESTPORT, MASS. (LAT 41 38 00 LONG 071 03 46)										
OCT., 1972										
12...	--	--	58	14	12	97	4.9	9.0	40	--
AUG., 1973										
09...	.11	.12	70	16	12	113	5.4	24.0	25	200
01105950 - KIRBY BROOK NEAR HEAD OF WESTPORT, MASS. (LAT 41 36 02 LONG 071 04 25)										
AUG., 1973										
09...	.05	.08	78	21	13	107	6.5	22.0	4.6	120
WEST BRANCH WESTPORT RIVER BASIN										
01106000 - ADAMSVILLE BROOK AT ADAMSVILLE, RI (LAT 41 33 30 LONG 071 07 47)										
OCT., 1972										
12...	--	--	46	15	10	68	6.1	11.0	7.6	--
AUG., 1973										
09...	.07	.08	56	13	8	77	6.2	--	7.1	200

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
WEST BRANCH WESTPORT RIVER BASIN.--CONTINUED										
01106005 - ANGELINE BROOK NEAR WESTPORT POINT, MASS. (LAT 41 33 05 LONG 071 06 20)										
OCT.. 1972										
12...	0915	2.9	11	--	--	6.0	2.1	6.7	1.7	4
AUG.. 1973										
09...	1700	.40	13	500	20	7.8	3.0	8.7	2.7	8
LEE RIVER BASIN										
01109130 - LEWIN BROOK AT SWANSEA, MASS. (LAT 41 44 55 LONG 071 11 45)										
AUG.. 1973										
10...	0830	.21	6.4	1000	31	7.9	1.6	6.8	1.5	23
COLE RIVER BASIN										
01109135 - COLE RIVER NEAR SWANSEA, MASS. (LAT 41 46 30 LONG 071 12 00)										
OCT.. 1972										
12...	1230	9.5	15	--	--	4.2	1.1	4.5	1.0	9
AUG.. 1973										
10...	0855	1.3	13	1300	60	5.0	1.3	5.2	1.3	10
PALMER RIVER BASIN										
01109195 - EAST BRANCH PALMER RIVER AT REHOBOTH, MASS. (LAT 41 50 30 LONG 071 14 35)										
AUG.. 1973										
10...	0940	1.8	12	1300	40	5.3	1.2	6.9	1.0	10
01109200 - WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 52 46 LONG 071 15 18)										
OCT.. 1972										
12...	1400	7.0	10	--	--	4.8	1.0	5.1	1.0	9
AUG.. 1973										
10...	1230	.52	11	1500	40	7.0	1.5	4.9	1.3	15
01109215 - PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 49 50 LONG 071 16 55)										
OCT.. 1972										
12...	1330	35	11	--	--	5.8	1.0	7.7	1.0	9
AUG.. 1973										
10...	1015	6.8	13	1300	80	7.8	1.8	7.4	1.3	16
01109225 - ROCKY RUN NEAR REHOBOTH, MASS. (LAT 41 46 52 LONG 071 15 05)										
OCT.. 1972										
12...	1300	6.7	12	--	--	5.5	1.0	4.9	.7	6
AUG.. 1973										
10...	1050	1.1	13	1300	30	6.9	1.5	5.4	1.0	14
RUNNINS RIVER BASIN										
01109270 - RUNNINS RIVER AT SEEKONK, MASS. (LAT 41 49 25 LONG 071 20 00)										
AUG.. 1973										
10...	1140	1.2	13	1100	220	13	2.1	14	2.9	31
BLACKSTONE RIVER BASIN										
01111230 - BLACKSTONE RIVER AT MILLVILLE, MASS. (LAT 42 01 16 LONG 071 34 04)										
MAY . 1973										
09...	1400	--	2.2	--	200	11	1.8	21	2.4	17

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
WEST BRANCH WESTPORT RIVER BASIN.--CONTINUED										
01106005 - ANGELINE BROOK NEAR WESTPORT POINT, MASS. (LAT 41 33 05 LONG 071 06 20)										
OCT., 1972 12...	0	3	11	13	.0	1.1	--	--	--	--
AUG., 1973 09...	0	7	21	14	.4	1.9	.00	.07	--	.55
LEE RIVER BASIN										
01109130 - LEWIN BROOK AT SWANSEA, MASS. (LAT 41 44 55 LONG 071 11 45)										
AUG., 1973 10...	0	19	10	8.0	.4	.14	.00	.11	--	.48
COLE RIVER BASIN										
01109135 - COLE RIVER NEAR SWANSEA, MASS. (LAT 41 46 30 LONG 071 12 00)										
OCT., 1972 12...	0	7	6.5	8.5	.0	.01	--	.40	--	--
AUG., 1973 10...	0	8	7.4	7.0	.4	.24	.01	.19	--	.64
PALMER RIVER BASIN										
01109195 - EAST BRANCH PALMER RIVER AT REHOBOTH, MASS. (LAT 41 50 30 LONG 071 14 35)										
AUG., 1973 10...	0	8	15	9.5	.4	.18	.00	.11	--	.50
01109200 - WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 52 46 LONG 071 15 18)										
OCT., 1972 12...	0	7	8.9	8.0	.0	.10	--	.90	--	--
AUG., 1973 10...	0	12	15	7.5	.4	.09	.00	.11	--	.51
01109215 - PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 49 50 LONG 071 16 55)										
OCT., 1972 12...	0	7	8.0	11	.0	.10	--	--	--	--
AUG., 1973 10...	0	13	14	11	.4	--	.00	.08	--	.24
01109225 - ROCKY RUN NEAR REHOBOTH, MASS. (LAT 41 46 52 LONG 071 15 05)										
OCT., 1972 12...	0	5	7.0	11	.0	.09	--	.59	--	--
AUG., 1973 10...	0	11	12	7.5	.4	.28	.01	.14	--	.62
RUNNINS RIVER BASIN										
01109270 - RUNNINS RIVER AT SEEKONK, MASS. (LAT 41 49 25 LONG 071 20 00)										
AUG., 1973 10...	0	25	22	16	.4	1.1	.01	.10	--	.58
BLACKSTONE RIVER BASIN										
01111230 - BLACKSTONE RIVER AT MILLVILLE, MASS. (LAT 42 01 16 LONG 071 34 04)										
MAY , 1973 09...	0	14	16	31	.3	1.3	.01	.12	1.6	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
WEST BRANCH WESTPORT RIVER BASIN.--CONTINUED										
01106005 - ANGELINE BROOK NEAR WESTPORT POINT, MASS. (LAT 41 33 05 LONG 071 06 20)										
OCT., 1972										
12...	--	--	58	24	20	86	6.0	11.0	6.4	--
AUG., 1973										
09...	.04	.05	83	32	25	120	6.4	21.0	5.1	100
LEE RIVER BASIN										
01109130 - LEWIN BROOK AT SWANSEA, MASS. (LAT 41 44 55 LONG 071 11 45)										
AUG., 1973										
10...	.02	.03	55	26	7	89	6.9	22.0	4.6	80
COLE RIVER BASIN										
01109135 - COLE RIVER NEAR SWANSEA, MASS. (LAT 41 46 30 LONG 071 12 00)										
OCT., 1972										
12...	--	--	46	15	8	57	5.8	11.0	23	--
AUG., 1973										
10...	.06	.09	47	18	10	61	6.1	22.0	13	240
PALMER RIVER BASIN										
01109195 - EAST BRANCH PALMER RIVER AT REHOBOTH, MASS. (LAT 41 50 30 LONG 071 14 35)										
AUG., 1973										
10...	.03	.03	57	18	10	76	6.7	22.0	3.2	55
01109200 - WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 52 46 LONG 071 15 18)										
OCT., 1972										
12...	--	--	46	16	9	61	6.6	10.0	3.6	--
AUG., 1973										
10...	.03	.04	57	24	11	76	6.5	--	7.6	170
01109215 - PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 49 50 LONG 071 16 55)										
OCT., 1972										
12...	--	--	50	19	11	68	7.0	9.5	1.4	--
AUG., 1973										
10...	.02	.03	68	27	14	97	6.7	21.0	5.1	80
01109225 - ROCKY RUN NEAR REHOBOTH, MASS. (LAT 41 46 52 LONG 071 15 05)										
OCT., 1972										
12...	--	--	46	18	13	57	5.8	11.0	15	--
AUG., 1973										
10...	.01	.01	56	23	12	79	6.4	24.0	8.9	160
RUNNINS RIVER BASIN										
01109270 - RUNNINS RIVER AT SEEKONK, MASS. (LAT 41 49 25 LONG 071 20 00)										
AUG., 1973										
10...	.47	.58	105	41	16	164	7.2	21.0	3.1	60
BLACKSTONE RIVER BASIN										
01111230 - BLACKSTONE RIVER AT MILLVILLE, MASS. (LAT 42 01 16 LONG 071 34 04)										
MAY , 1973										
09...	.22	.43	101	35	21	187	7.2	14.3	1.7	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
PAWTUXET RIVER BASIN										
01116500 - PAWTUXET RIVER AT CRANSTON, R. I. (LAT 41 45 03 LONG 071 26 44)										
MAY , 1973										
09...	1100	356	3.2	520	180	9.3	1.2	16	2.7	12
THAMES RIVER BASIN										
01123990 - QUINEBAUG RIVER NEAR DUDLEY, MASS. (LAT 42 01 40 LONG 071 57 37)										
MAY , 1973										
09...	1500	--	.1	--	150	7.5	1.6	10	1.3	12
01124750 - BROWNS BROOK NEAR WEBSTER, MASS. (LAT 42 03 24 LONG 071 49 51)										
MAY , 1973										
09...	1600	1.9	7.6	70	30	2.0	.4	4.3	.3	3
CONNECTICUT RIVER BASIN										
01160000 - SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H. (LAT 42 52 20 LONG 072 12 55)										
MAY , 1973										
30...	1115	92	4.0	370	60	2.1	.6	4.4	.4	3
01161250 - MILL BROOK AT NORTHFIELD, MASS. (LAT 42 41 42 LONG 072 26 52.01)										
OCT., 1972										
17...	--	--	7.8	--	--	2.9	.7	3.0	.8	7
01161310 - WEST WAIT BROOK NEAR NORTHFIELD, MASS. (LAT 42 42 03 LONG 072 29 33.01)										
OCT., 1972										
16...	--	--	9.4	--	--	4.4	1.1	2.2	.5	9
01161320 - DRY BROOK AT GILL, MASS. (LAT 42 38 31 LONG 072 29 53)										
MAR., 1973										
22...	1345	36	6.1	80	0	5.8	1.2	3.4	.6	7
01167200 - FALL RIVER AT BERNARDSTON, MASS. (LAT 42 41 15 LONG 072 32 43)										
MAR., 1973										
22...	1140	128	5.3	90	0	9.5	1.4	4.2	.5	20
01167800 - BEAVER BROOK AT WILMINGTON, VT. (LAT 42 51 38 LONG 072 51 04)										
MAY , 1973										
24...	1000	24	3.2	230	60	2.9	.6	2.4	.5	5
01170550 - RED BROOK NEAR NORTH LEVERETT, MASS. (LAT 42 30 15 LONG 072 26 52)										
MAR., 1973										
22...	1015	8.3	6.7	100	50	2.4	.3	1.2	.2	2
01170600 - LONG PLAIN BROOK NEAR LEVERETT, MASS. (LAT 42 27 28 LONG 072 31 23)										
MAR., 1973										
22...	0915	8.2	6.9	110	20	13	1.4	7.5	.3	26
01170700 - ROARING BROOK AT EAST LEVERETT, MASS. (LAT 42 26 18 LONG 072 28 59)										
MAR., 1973										
20...	1600	29	7.4	60	50	2.8	.4	2.7	.5	3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
PAWTUXET RIVER BASIN										
01116500 - PAWTUXET RIVER AT CRANSTON, R. I. (LAT 41 45 03 LONG 071 26 44)										
MAY , 1973										
09...	0	10	19	26	.3	.11	.08	.12	.63	--
THAMES RIVER BASIN										
01123990 - QUINEBAUG RIVER NEAR DUDLEY, MASS. (LAT 42 01 40 LONG 071 57 37)										
MAY , 1973										
09...	0	10	10	18	.2	.19	.01	.08	.54	--
01124750 - BROWNS BROOK NEAR WEBSTER, MASS. (LAT 42 03 24 LONG 071 49 51)										
MAY , 1973										
09...	0	2	7.0	6.8	.6	.00	.00	.02	.01	--
CONNECTICUT RIVER BASIN										
01160000 - SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H. (LAT 42 52 20 LONG 072 12 55)										
MAY , 1973										
30...	0	2	6.8	7.0	.2	.02	.00	.07	.13	--
01161250 - MILL BROOK AT NORTHFIELD, MASS. (LAT 42 41 42 LONG 072 26 52.01)										
OCT., 1972										
17...	0	6	6.7	3.2	.0	.02	--	--	--	--
01161310 - WEST WAIT BROOK NEAR NORTHFIELD, MASS. (LAT 42 42 03 LONG 072 29 33.01)										
OCT., 1972										
16...	0	7	8.9	1.3	.0	.00	--	--	--	--
01161320 - DRY BROOK AT GILL, MASS. (LAT 42 38 31 LONG 072 29 53)										
MAR., 1973										
22...	0	6	11	4.7	.2	.50	--	--	--	--
01167200 - FALL RIVER AT BERNARDSTON, MASS. (LAT 42 41 15 LONG 072 32 43)										
MAR., 1973										
22...	0	16	10	6.1	.1	.50	--	--	--	--
01167800 - BEAVER BROOK AT WILMINGTON, VT. (LAT 42 51 38 LONG 072 51 04)										
MAY , 1973										
24...	0	4	6.9	2.9	.2	.02	.00	.05	.02	--
01170550 - RED BROOK NEAR NORTH LEVERETT, MASS. (LAT 42 30 15 LONG 072 26 52)										
MAR., 1973										
22...	0	2	7.0	.7	.1	.00	--	--	--	--
01170600 - LONG PLAIN BROOK NEAR LEVERETT, MASS. (LAT 42 27 28 LONG 072 31 23)										
MAR., 1973										
22...	0	21	14	13	.1	.02	--	--	--	--
01170700 - ROARING BROOK AT EAST LEVERETT, MASS. (LAT 42 26 18 LONG 072 28 59)										
MAR., 1973										
20...	0	2	8.0	3.3	.2	.03	--	--	--	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
PAWTUXET RIVER BASIN										
01116500 - PAWTUXET RIVER AT CRANSTON, R. I. (LAT 41 45 03 LONG 071 26 44)										
MAY , 1973 09...	.18	.35	85	28	18	155	6.1	13.5	15	--
THAMES RIVER BASIN										
01123990 - QUINEBAUG RIVER NEAR DUDLEY, MASS. (LAT 42 01 40 LONG 071 57 37)										
MAY , 1973 09...	.05	.21	56	25	15	108	7.0	13.8	1.9	--
01124750 - BROWNS BROOK NEAR WEBSTER, MASS. (LAT 42 03 24 LONG 071 49 51)										
MAY , 1973 09...	.00	.00	31	7	4	43	5.5	9.7	15	--
CONNECTICUT RIVER BASIN										
01160000 - SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N.H. (LAT 42 52 20 LONG 072 12 55)										
MAY , 1973 30...	.00	.02	27	8	5	45	5.9	--	6.0	--
01161250 - MILL BROOK AT NORTHFIELD, MASS. (LAT 42 41 42 LONG 072 26 52.01)										
OCT., 1972 17...	--	--	29	10	4	37	6.8	8.0	1.8	--
01161310 - WEST WAIT BROOK NEAR NORTHFIELD, MASS. (LAT 42 42 03 LONG 072 29 33.01)										
OCT., 1972 16...	--	--	32	16	9	41	6.9	4.5	1.8	--
01161320 - DRY BROOK AT GILL, MASS. (LAT 42 38 31 LONG 072 29 53)										
MAR., 1973 22...	--	--	39	19	14	59	6.7	3.0	2.2	--
01167200 - FALL RIVER AT BERNARDSTON, MASS. (LAT 42 41 15 LONG 072 32 43)										
MAR., 1973 22...	--	--	49	29	13	80	7.2	3.0	2.0	--
01167800 - BEAVER BROOK AT WILMINGTON, VT. (LAT 42 51 38 LONG 072 51 04)										
MAY , 1973 24...	.00	.00	22	10	6	36	6.6	--	2.0	--
01170550 - RED BROOK NEAR NORTH LEVERETT, MASS. (LAT 42 30 15 LONG 072 26 52)										
MAR., 1973 22...	--	--	20	7	6	25	4.9	1.0	40	--
01170600 - LONG PLAIN BROOK NEAR LEVERETT, MASS. (LAT 42 27 28 LONG 072 31 23)										
MAR., 1973 22...	--	--	69	38	17	110	7.3	2.0	2.1	--
01170700 - ROARING BROOK AT EAST LEVERETT, MASS. (LAT 42 26 18 LONG 072 28 59)										
MAR., 1973 20...	--	--	27	9	6	36	5.4	3.0	19	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED										
01170895 - MILL RIVER NEAR DEERFIELD, MASS. (LAT 42 30 10 LONG 072 38 51.01)										
OCT., 1972										
27...	--	--	6.5	10	0	30	1.9	12	2.8	77
01170902 - BLOODY BROOK NEAR SOUTH DEERFIELD, MASS. (LAT 42 28 30 LONG 072 38 02.01)										
OCT., 1972										
20...	--	--	12	10	0	31	7.7	34	10	47
01170905 - ROARING BROOK NEAR CONWAY, MASS. (LAT 42 28 19 LONG 072 40 21)										
MAR., 1973										
22...	1515	18	7.6	80	0	10	.7	1.3	.6	26
01171290 - HOP BROOK AT SOUTH AMHERST, MASS. (LAT 42 20 31 LONG 072 29 38)										
MAR., 1973										
20...	1400	44	7.3	50	30	5.8	1.3	3.3	.7	10
01171300 - FORT RIVER NEAR AMHERST, MASS. (LAT 42 21 28 LONG 072 30 17)										
MAR., 1973										
20...	1315	131	7.4	150	80	6.0	1.2	3.8	.7	8
01171497 - MILL RIVER TRIBUTARY AT NORTHAMPTON, MASS. (LAT 42 19 16 LONG 072 39 15.01)										
OCT., 1972										
24...	--	--	14	10	0	--	--	--	--	--
MAR., 1973										
23...	0915	1.5	11	590	240	26	4.5	47	3.4	41
01171500 - MILL RIVER AT NORTHAMPTON, MASS. (LAT 42 19 05 LONG 072 39 21)										
MAR., 1973										
23...	1015	190	7.7	100	0	6.9	1.0	3.5	.6	16
01171780 - MANHAN RIVER AT EASTHAMPTON, MASS. (LAT 42 15 59 LONG 072 41 31)										
MAR., 1973										
23...	1150	156	7.9	200	0	6.8	1.2	3.5	.6	14
01171800 - BASSETT BROOK NEAR NORTHAMPTON, MASS. (LAT 42 18 09 LONG 072 41 16)										
MAR., 1973										
22...	1645	21	8.0	130	10	5.9	1.0	3.3	.5	13
01171907 - BROAD BROOK AT ROCK VALLEY ST, HOLYOKE, MASS. (LAT 42 11 36 LONG 072 40 31)										
MAR., 1973										
23...	1445	4.9	7.5	80	30	14	3.6	10	.4	36
01171950 - BACHELOR BROOK AT SOUTH HADLEY, MASS. (LAT 42 16 12 LONG 072 35 14)										
MAR., 1973										
20...	1115	199	7.0	160	20	11	2.0	4.4	.7	22
01172005 - BUTTERY BROOK AT SOUTH HADLEY FALLS, MASS. (LAT 42 12 54 LONG 072 35 49.01)										
OCT., 1972										
24...	--	--	4.9	20	180	16	2.7	12	4.0	56
MAY , 1973										
11...	0930	--	10	50	180	30	5.0	34	2.4	35

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED										
01170895 - MILL RIVER NEAR DEERFIELD, MASS. (LAT 42 30 10 LONG 072 38 51.01)										
OCT., 1972 27...	0	63	19	17	.3	1.4	.44	--	--	--
01170902 - BLOODY BROOK NEAR SOUTH DEERFIELD, MASS. (LAT 42 28 30 LONG 072 38 02.01)										
OCT., 1972 20...	0	39	41	59	.1	5.3	--	--	--	--
01170905 - ROARING BROOK NEAR CONWAY, MASS. (LAT 42 28 19 LONG 072 40 21)										
MAR., 1973 22...	0	21	7.5	1.2	.1	.04	--	--	--	--
01171290 - HOP BROOK AT SOUTH AMHERST, MASS. (LAT 42 20 31 LONG 072 29 38)										
MAR., 1973 20...	0	8	12	4.3	.1	.10	--	--	--	--
01171300 - FORT RIVER NEAR AMHERST, MASS. (LAT 42 21 28 LONG 072 30 17)										
MAR., 1973 20...	0	7	12	5.0	.2	.20	--	--	--	--
01171497 - MILL RIVER TRIBUTARY AT NORTHAMPTON, MASS. (LAT 42 19 16 LONG 072 39 15.01)										
OCT., 1972 24...	--	--	30	70	.1	1.6	--	--	--	--
MAR., 1973 23...	0	34	27	80	.1	3.3	--	--	--	--
01171500 - MILL RIVER AT NORTHAMPTON, MASS. (LAT 42 19 05 LONG 072 39 21)										
MAR., 1973 23...	0	13	8.5	5.0	.1	.30	--	--	--	--
01171780 - MANHAN RIVER AT EASTHAMPTON, MASS. (LAT 42 15 59 LONG 072 41 31)										
MAR., 1973 23...	0	11	7.4	5.4	.2	.50	--	--	--	--
01171800 - BASSETT BROOK NEAR NORTHAMPTON, MASS. (LAT 42 18 09 LONG 072 41 16)										
MAR., 1973 22...	0	11	8.0	4.0	.1	.40	--	--	--	--
01171907 - BROAD BROOK AT ROCK VALLEY ST, HOLYOKE, MASS. (LAT 42 11 36 LONG 072 40 31)										
MAR., 1973 23...	0	30	15	17	.1	.40	--	--	--	--
01171950 - BACHELOR BROOK AT SOUTH HADLEY, MASS. (LAT 42 16 12 LONG 072 35 14)										
MAR., 1973 20...	0	18	15	6.0	.1	.30	--	--	--	--
01172005 - BUTTERY BROOK AT SOUTH HADLEY FALLS, MASS. (LAT 42 12 54 LONG 072 35 49.01)										
OCT., 1972 24...	0	46	13	20	.0	.00	--	3.5	--	--
MAY , 1973 11...	0	29	50	55	.2	1.0	.00	--	--	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
CONNECTICUT RIVER BASIN.--CONTINUED										
01170895 - MILL RIVER NEAR DEERFIELD, MASS. (LAT 42 30 10 LONG 072 38 51.01)										
OCT., 1972 27...	--	--	134	83	20	240	7.4	9.0	4.9	--
01170902 - BLOODY BROOK NEAR SOUTH DEERFIELD, MASS. (LAT 42 28 30 LONG 072 38 02.01)										
OCT., 1972 20...	--	--	241	110	71	428	7.0	--	7.5	--
01170905 - ROARING BROOK NEAR CONWAY, MASS. (LAT 42 28 19 LONG 072 40 21)										
MAR., 1973 22...	--	--	42	28	7	65	7.4	3.0	1.7	--
01171290 - HOP BROOK AT SOUTH AMHERST, MASS. (LAT 42 20 31 LONG 072 29 38)										
MAR., 1973 20...	--	--	40	20	12	61	6.6	4.0	4.0	--
01171300 - FORT RIVER NEAR AMHERST, MASS. (LAT 42 21 28 LONG 072 30 17)										
MAR., 1973 20...	--	--	41	20	13	59	6.8	4.0	2.0	--
01171497 - MILL RIVER TRIBUTARY AT NORTHAMPTON, MASS. (LAT 42 19 16 LONG 072 39 15.01)										
OCT., 1972 24...	--	--	--	--	--	447	--	12.0	--	--
MAR., 1973 23...	--	--	234	83	50	415	7.6	4.0	1.6	--
01171500 - MILL RIVER AT NORTHAMPTON, MASS. (LAT 42 19 05 LONG 072 39 21)										
MAR., 1973 23...	--	--	43	21	8	59	7.3	3.0	1.3	--
01171780 - MANHAN RIVER AT EASTHAMPTON, MASS. (LAT 42 15 59 LONG 072 41 31)										
MAR., 1973 23...	--	--	42	22	10	65	6.9	4.0	2.8	--
01171800 - BASSETT BROOK NEAR NORTHAMPTON, MASS. (LAT 42 18 09 LONG 072 41 16)										
MAR., 1973 22...	--	--	39	19	8	55	7.1	4.0	1.7	--
01171907 - BROAD BROOK AT ROCK VALLEY ST, HOLYOKE, MASS. (LAT 42 11 36 LONG 072 40 31)										
MAR., 1973 23...	--	--	87	50	20	148	7.7	8.0	1.1	--
01171950 - BACHELOR BROOK AT SOUTH HADLEY, MASS. (LAT 42 16 12 LONG 072 35 14)										
MAR., 1973 20...	--	--	59	36	18	92	7.3	5.0	1.8	--
01172005 - BUTTERY BROOK AT SOUTH HADLEY FALLS, MASS. (LAT 42 12 54 LONG 072 35 49.01)										
OCT., 1972 24...	--	--	105	51	5	190	6.8	22.5	14	--
MAY , 1973 11...	--	--	208	96	67	383	7.3	13.0	2.8	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED										
01172020 - TANNERY BROOK NEAR HOLYOKE, MASS. (LAT 42 09 44 LONG 072 38 01.01)										
OCT., 1972										
18...	--	--	13	--	--	42	12	19	1.7	100
01173260 - MOOSE BROOK NEAR BARRE, MASS. (LAT 42 23 52 LONG 072 08 51)										
MAY , 1973										
29...	1715	22	2.9	280	40	2.4	.6	3.9	.4	4
01174000 - HOP BROOK NEAR NEW SALEM, MASS. (LAT 42 28 42 LONG 072 20 05)										
MAY , 1973										
29...	1900	13	8.2	160	40	3.4	.7	4.4	.3	8
01177200 - CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS. (LAT 42 05 46 LONG 072 35 43)										
MAY , 1973										
11...	1000	--	.6	600	50	11	1.4	4.8	.8	28
25...	1200	--	3.5	880	70	8.8	1.0	3.1	.6	23
01177300 - NORTH BRANCH MILL RIVER NEAR WILBRAHAM, MASS. (LAT 42 07 02 LONG 072 28 18)										
MAR., 1973										
21...	1130	15	7.4	150	0	14	3.0	7.9	1.2	29
01178000 - MILL RIVER AT SPRINGFIELD, MASS. (LAT 42 05 39 LONG 072 34 03)										
MAR., 1973										
21...	1430	87	8.6	470	100	16	3.3	15	1.3	30
01180800 - WALKER BROOK NEAR BECKET CENTER, MASS. (LAT 42 15 49 LONG 073 02 48)										
MAY , 1973										
21...	1400	32	4.1	200	30	4.2	1.0	7.0	.6	8
01183600 - WESTFIELD RIVER AT WEST SPRINGFIELD, MASS. (LAT 42 05 59 LONG 072 38 28)										
MAY , 1973										
25...	1000	--	5.0	530	50	6.1	1.4	4.2	.7	16
01183700 - PECOUSIC BROOK NEAR SPRINGFIELD, MASS. (LAT 42 03 56 LONG 072 32 24.01)										
DEC., 1972										
05...	1520	--	11	50	140	30	4.7	300	2.4	32
MAR., 1973										
21...	1315	6.9	12	340	120	26	5.3	25	1.7	48
01183750 - CONNECTICUT RIVER AT AGAWAM, MASS (LAT 41 59 14 LONG 072 36 21)										
MAY , 1973										
11...	1200	--	.7	670	70	8.6	1.6	5.3	.8	22
01184200 - STILL BROOK NEAR WEST AGAWAM, MASS. (LAT 42 02 31 LONG 072 41 00)										
MAR., 1973										
21...	1600	12	5.4	150	20	22	5.5	5.4	1.3	35

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED										
01172020 - TANNERY BROOK NEAR HOLYOKE, MASS. (LAT 42 09 44 LONG 072 38 01.01)										
OCT.. 1972 18...	0	82	34	43	.1	1.6	--	--	--	--
01173260 - MOOSE BROOK NEAR BARRE, MASS. (LAT 42 23 52 LONG 072 08 51)										
MAY . 1973 29...	0	3	7.0	6.6	.2	.00	.00	.18	.20	--
01174000 - HOP BROOK NEAR NEW SALEM, MASS. (LAT 42 28 42 LONG 072 20 05)										
MAY . 1973 29...	0	7	7.4	6.7	.2	.02	.00	.05	.08	--
01177200 - CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS. (LAT 42 05 46 LONG 072 35 43)										
MAY . 1973 11...	0	23	10	7.5	.2	.03	.01	.10	.21	--
25...	0	19	8.1	4.9	.2	.15	.01	.05	.26	--
01177300 - NORTH BRANCH MILL RIVER NEAR WILBRAHAM, MASS. (LAT 42 07 02 LONG 072 28 18)										
MAR.. 1973 21...	0	24	18	11	.1	.90	--	--	--	--
01178000 - MILL RIVER AT SPRINGFIELD, MASS. (LAT 42 05 39 LONG 072 34 03)										
MAR.. 1973 21...	0	25	19	28	.1	1.2	--	--	--	--
01180800 - WALKER BROOK NEAR BECKET CENTER, MASS. (LAT 42 15 49 LONG 073 02 48)										
MAY . 1973 21...	0	7	7.4	12	.2	.00	.00	.05	.05	--
01183600 - WESTFIELD RIVER AT WEST SPRINGFIELD, MASS. (LAT 42 05 59 LONG 072 38 28)										
MAY . 1973 25...	0	13	7.2	6.5	.3	.29	.01	.05	.18	--
01183700 - PECOUSIC BROOK NEAR SPRINGFIELD, MASS. (LAT 42 03 56 LONG 072 32 24.01)										
DEC.. 1972 05...	0	26	34	480	.2	1.6	--	--	--	--
MAR.. 1973 21...	0	39	33	46	.2	2.0	--	--	--	--
01183750 - CONNECTICUT RIVER AT AGAWAM, MASS (LAT 41 59 14 LONG 072 36 21)										
MAY . 1973 11...	0	18	10	8.3	.2	.02	.01	.10	.21	--
01184200 - STILL BROOK NEAR WEST AGAWAM, MASS. (LAT 42 02 31 LONG 072 41 00)										
MAR.. 1973 21...	0	29	37	9.0	.2	2.4	--	--	--	--

CHEMICAL ANALYSES OF SURFACE WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.--Continued

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)
CONNECTICUT RIVER BASIN.--CONTINUED										
01172020 - TANNERY BROOK NEAR HOLYOKE, MASS. (LAT 42 09 44 LONG 072 38 01.01)										
OCT., 1972										
18...	--	--	221	150	68	390	7.7	8.0	3.2	--
01173260 - MOOSE BROOK NEAR BARRE, MASS. (LAT 42 23 52 LONG 072 08 51)										
MAY , 1973										
29...	.00	.02	26	8	5	42	5.5	--	20	--
01174000 - HOP BROOK NEAR NEW SALEM, MASS. (LAT 42 28 42 LONG 072 20 05)										
MAY , 1973										
29...	.00	.00	35	11	5	50	6.7	--	2.6	--
01177200 - CONNECTICUT RIVER AT WEST SPRINGFIELD, MASS. (LAT 42 05 46 LONG 072 35 43)										
MAY , 1973										
11...	.00	.06	50	33	10	94	7.7	--	.9	--
25...	.00	.05	42	26	7	71	7.3	--	1.8	--
01177300 - NORTH BRANCH MILL RIVER NEAR WILBRAHAM, MASS. (LAT 42 07 02 LONG 072 28 18)										
MAR., 1973										
21...	--	--	81	47	24	137	7.3	4.0	2.3	--
01178000 - MILL RIVER AT SPRINGFIELD, MASS. (LAT 42 05 39 LONG 072 34 03)										
MAR., 1973										
21...	--	--	112	54	29	190	7.4	8.0	1.9	--
01180800 - WALKER BROOK NEAR BECKET CENTER, MASS. (LAT 42 15 49 LONG 073 02 48)										
MAY , 1973										
21...	.00	.01	41	15	8	71	7.0	--	1.3	--
01183600 - WESTFIELD RIVER AT WEST SPRINGFIELD, MASS. (LAT 42 05 59 LONG 072 38 28)										
MAY , 1973										
25...	.02	.11	41	21	8	72	7.4	--	1.0	--
01183700 - PECOUSIC BROOK NEAR SPRINGFIELD, MASS. (LAT 42 03 56 LONG 072 32 24.01)										
DEC., 1972										
05...	--	--	885	94	68	1670	7.0	3.5	5.1	--
MAR., 1973										
21...	--	--	182	87	47	361	7.6	8.0	1.9	--
01183750 - CONNECTICUT RIVER AT AGAWAM, MASS (LAT 41 59 14 LONG 072 36 21)										
MAY , 1973										
11...	.00	.04	47	28	10	89	7.7	--	.7	--
01184200 - STILL BROOK NEAR WEST AGAWAM, MASS. (LAT 42 02 31 LONG 072 41 00)										
MAR., 1973										
21...	--	--	114	78	49	188	7.5	8.0	1.8	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MATTAPOISETT RIVER BASIN										
01105911 - MATTAPOISETT RIVER AT ROUNSEVILLE ROAD, NEAR ROCHESTER, MASS. (LAT 41 44 10 LONG 070 51 45)										
OCT.. 1972 13...	10	1	0	0	30	6	0	<.5	40	0
SLOCUMS RIVER BASIN										
01105933 - PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MASS. (LAT 41 35 07 LONG 070 59 25)										
OCT.. 1972 12...	10	1	10	0	40	--	0	<.5	60	0
EAST BRANCH WESTPORT RIVER BASIN										
01105947 - BREAD AND CHEESE BROOK AT HEAD OF WESTPORT, MASS. (LAT 41 38 00 LONG 071 03 46)										
OCT.. 1972 12...	10	0	0	0	20	13	0	<.5	30	0
PALMER RIVER BASIN										
01109200 - WEST BRANCH PALMER RIVER NEAR REHOBOTH, MASS. (LAT 41 52 46 LONG 071 15 18)										
OCT.. 1972 12...	10	0	0	0	30	--	0	<.5	50	0

CHEMICAL ANALYSES OF GROUND WATER IN MASSACHUSETTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

LOCAL WELL NUMBER	LATITUDE	LONGITUDE	SEQ. NO.	DEPTH OF WELL (FT)	DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)
GRANBY										
GKS 2	42 15 58	072 31 06	01	SPRING	11-02-72	10	--	--	21	5.2
HAMPDEN										
HDS 1	42 05 25	072 24 44	01	SPRING	11-02-72	15	--	--	5.8	1.7
MONTAGUE										
M5S 7	42 33 48	072 32 37	01	SPRING	10-17-72	--	--	--	5.0	.6
SUNDERLAND										
S6S 8	42 26 13	072 32 55	01	SPRING	10-18-72	6.7	--	--	17	2.0
S6S 9	42 25 53	072 32 23	01	SPRING	01-18-73	9.7	10	20	18	2.7
TRURO										
TSW 203	42 00 51	070 02 48	05	35	08-24-72	3.7	0	90	1.9	1.9

LOCAL WELL NUMBER	DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED FLOU-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS (MG/L)
GRANBY										
GKS 2	11-02-72	3.8	0.5	61	0	18	3.6	1.2	0.0	97
HAMPDEN										
HDS 1	11-02-72	3.4	1.2	16	0	12	2.0	.00	.0	49
MONTAGUE										
M5S 7	10-17-72	9.6	.6	14	0	6.4	12	.07	.0	51
SUNDERLAND										
S6S 8	10-18-72	3.9	.6	30	0	14	11	.4	.0	72
S6S 9	01-18-73	3.1	.5	32	0	19	7.5	.8	.1	80
TRURO										
TSW 203	08-24-72	13	.5	5	0	5.0	22	.01	.3	51

LOCAL WELL NUMBER	DATE	HARD-NESS (CA, MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
GRANBY							
GKS 2	11-02-72	74	24	50	158	7.6	8.5
HAMPDEN							
HDS 1	11-02-72	21	8	13	65	6.8	--
MONTAGUE							
M5S 7	10-17-72	15	4	11	86	7.2	8.0
SUNDERLAND							
S6S 8	10-18-72	51	26	25	122	7.4	6.5
S6S 9	01-18-73	56	30	26	129	7.3	--
TRURO							
TSW 203	08-24-72	13	8	4	96	6.4	10.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF GROUND WATER IN RHODE ISLAND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

LOCAL WELL NUMBER	LATITUDE	LONGITUDE	SEQ. NO.	DEPTH OF WELL (FT)	DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)
					CRANSTON					
CRW 431	41 18 17	071 26 34	01	74	01-29-73	15	510	360	33	8.1
					CUMBERLAND					
CUW 409	41 57 56	071 27 50	01	75	01-30-73	8.6	0	900	14	3.2
CUW 440	41 54 34	071 22 58	02	81	01-30-73	11	0	0	14	3.1
					EXETER					
EXW 416	41 33 23	071 32 46	01	57	01-31-73	12	0	70	6.6	1.9
					LINCOLN					
LIW 335	41 53 15	071 24 42	01	107	01-29-73	12	0	0	26	4.8
LIW 383	41 55 15	071 25 28	01	62	01-30-73	9.6	0	1100	22	4.1
					SOUTH KINGSTON					
SNW 81	41 26 04	071 32 03	01	75	02-01-73	11	0	0	8.8	2.7
SNW 92	41 29 25	071 32 45	01	132	01-31-73	17	90	1500	10	2.3
					WARWICK					
WCW 39	41 38 19	071 27 54	01	61	01-31-73	13	0	40	9.7	2.3
WCW 40	41 38 16	071 27 54	01	80	01-31-73	14	340	280	7.8	2.0
WCW 667	41 38 09	071 28 03	01	114	01-31-73	13	0	60	9.0	2.2
					WESTERLY					
WEW 525	41 23 36	071 50 25	01	75	02-01-73	13	50	90	7.5	2.2

LOCAL WELL NUMBER	DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	PHOS-PHATE (PO4) (MG/L)
					CRANSTON					
CRW 431	01-29-73	33	5.2	78	0	66	39	1.9	0.8	6.9
					CUMBERLAND					
CUW 409	01-30-73	19	3.7	37	0	27	21	2.1	.2	.14
CUW 440	01-30-73	8.2	1.1	26	0	21	13	1.2	.1	.12
					EXETER					
EXW 416	01-31-73	13	1.6	8	0	12	23	1.0	.1	.07
					LINCOLN					
LIW 335	01-29-73	20	3.4	36	0	36	34	3.6	.1	.14
LIW 383	01-30-73	22	4.8	60	0	24	33	1.2	.1	.45
					SOUTH KINGSTON					
SNW 81	02-01-73	5.8	1.6	8	0	20	10	2.1	.1	.06
SNW 92	01-31-73	6.5	1.8	17	0	21	11	.81	.4	.07
					WARWICK					
WCW 39	01-31-73	13	2.3	12	0	16	20	2.0	.3	.25
WCW 40	01-31-73	9.7	1.9	11	0	18	16	.47	.2	.06
WCW 667	01-31-73	17	2.3	23	0	13	24	1.4	.2	.10
					WESTERLY					
WEW 525	02-01-73	10	1.6	24	0	12	10	1.2	.1	.15

CHEMICAL ANALYSES OF GROUND WATER IN RHODE ISLAND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--CONTINUED

LOCAL WELL NUMBER	DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)
					CRANSTON					
CRW 431	01-29-73	254	116	52	64	454	6.4	13.0	0.3	21
					CUMBERLAND					
CUW 409	01-30-73	124	48	18	30	222	6.2	11.3	3.5	21
CUW 440	01-30-73	90	48	27	21	176	6.2	9.9	5.8	13
					EXETER					
EXW 416	01-31-73	79	25	18	7	154	5.7	11.0	9.1	19
					LINCOLN					
LIW 335	01-29-73	171	85	55	30	331	6.2	11.3	5.6	21
LIW 383	01-30-73	155	72	23	49	307	6.4	14.3	.8	13
					SOUTH KINGSTON					
SNW 81	02-01-73	73	33	27	7	125	5.7	9.5	10.8	25
SNW 92	01-31-73	83	35	21	14	132	6.5	10.4	2.3	27
					WARWICK					
WCW 39	01-31-73	92	34	24	10	166	5.5	11.0	4.8	46
WCW 40	01-31-73	77	28	19	9	141	5.8	10.4	.4	76
WCW 667	01-31-73	98	32	13	19	186	6.2	10.4	4.3	29
					WESTERLY					
WEW 525	02-01-73	74	28	8	20	135	6.4	10.0	---	38

LOCAL WELL NUMBER	DATE	TOTAL CADMIUM (CO) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL STRON-TIUM (SR) (MG/L)	TOTAL ZINC (ZN) (UG/L)
					CRANSTON					
CRW 431	01-29-73	0	9	0	10	<10	0	0	170	50
					CUMBERLAND					
CUW 409	01-30-73	1	3	0	40	<10	0	0	70	40
CUW 440	01-30-73	1	0	0	20	<10	0	0	90	40
					EXETER					
EXN 416	01-31-73	1	0	0	60	<10	0	0	60	20
					LINCOLN					
LIW 335	01-29-73	0	0	0	0	<10	0	0	110	40
LIW 383	01-30-73	1	0	0	30	<10	0	0	70	90
					SOUTH KINGSTON					
SNW 81	02-01-73	1	0	0	130	<10	0	0	50	40
SNW 92	01-31-73	1	0	0	60	<10	20	0	50	40
					WARWICK					
WCW 39	01-31-73	1	0	0	50	<10	0	2	70	90
WCW 40	01-31-73	1	0	5	60	<10	0	11	40	360
WCW 667	01-31-73	1	0	0	20	<10	0	1	60	40
					WESTERLY					
WEW 525	02-01-73	1	0	0	40	<10	0	0	30	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF GROUND WATER IN RHODE ISLAND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--CONTINUED

LOCAL WELL NUMBER	DATE	CARBON DIOXIDE (CO2) (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	HYDRO-GEN SULFIDE (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	IN-ORGANIC CARBON (C) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLOR-DANE (UG/L)
CRANSTON										
CRW 431	01-29-73	52	2	0.0	0.09	0.12	32	0.0	0.00	0.0
CUMBERLAND										
CUW 409	01-30-73	29	0	.0	.29	.05	15	2.0	.00	.0
CUW 440	01-30-73	19	0	.0	.04	.01	10	3.0	.00	.0
EXETER										
EXW 416	01-31-73	23	0	.0	.03	.05	6.0	.0	.00	.0
LINCOLN										
LIW 335	01-29-73	42	0	.0	.04	.03	21	1.0	.00	.0
LIW 383	01-30-73	34	0	.0	.37	.08	25	3.0	.00	.0
SOUTH KINGSTON										
SNW 81	02-01-73	16	0	.0	.08	.02	4.0	.0	.00	.0
SNW 92	01-31-73	23	0	.0	.06	.03	9.0	1.0	.00	.0
WARWICK										
WCW 39	01-31-73	35	0	.0	.10	.00	11	.0	.00	.0
WCW 40	01-31-73	35	0	.0	.09	.08	12	.0	.00	.0
WCW 667	01-31-73	37	0	.0	.10	.00	15	.0	.00	.0
WESTERLY										
WEW 525	02-01-73	--	0	--	.00	.07	8.0	1.0	.00	.0

LOCAL WELL NUMBER	DATE	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
CRANSTON										
CRW 431	01-29-73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUMBERLAND										
CUW 409	01-30-73	.00	.00	.00	.03	.00	.00	.00	.00	.00
CUW 440	01-30-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
EXETER										
EXW 416	01-31-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
LINCOLN										
LIW 335	01-29-73	.00	.00	.00	TRACE	.00	.00	.00	.00	.00
LIW 383	01-30-73	.00	.00	.00	.07	.00	.00	.00	.00	.00
SOUTH KINGSTON										
SNW 81	02-01-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
SNW 92	01-31-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
WARWICK										
WCW 39	01-31-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
WCW 40	01-31-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
WCW 667	01-31-73	.00	.00	.00	.00	.00	.00	.00	.00	.00
WESTERLY										
WEW 525	02-01-73	.00	.00	.00	.00	.00	.00	.00	.00	.00

CHEMICAL ANALYSES OF GROUND WATER IN RHODE ISLAND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--CONTINUED

LOCAL WELL NUMBER	DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)
CRANSTON								
CRW 431	01-29-73	0.00	0.00	0.00	0.00	0.00	0.00	0.0
CUMBERLAND								
CUW 409	01-30-73	.00	.00	.00	.00	.00	.00	.0
CUW 440	01-30-73	.00	.00	.00	.00	.00	.00	.0
EXETER								
EXW 416	01-31-73	.00	.00	.00	.00	.00	.00	.00
LINCOLN								
LIW 335	01-29-73	.00	.00	.00	.00	.00	.00	.0
LIW 383	01-30-73	.00	.00	.00	.00	.00	.00	.0
SOUTH KINGSTON								
SNW 81	03-01-73	.00	.00	.00	.00	.00	.00	.0
SNW 92	01-31-73	.00	.00	.00	.00	.00	.00	.0
WARWICK								
WCW 39	01-31-73	.00	.00	.00	.00	.00	.00	.0
WCW 40	01-31-73	.00	.00	.00	.00	.00	.00	.0
WCW 667	01-31-73	.00	.00	.00	.00	.00	.00	.0
WESTERLY								
WEW 525	02-01-73	.00	.00	.00	.00	.00	.00	.0

CHEMICAL QUALITY OF PRECIPITATION

CONNECTICUT RIVER BASIN

AT AMHERST, MASS.

LOCATION.--Lat 42°22'11", long 72°31'06", Hampshire County, on the grounds of Amherst College, at Amherst, Mass.

EQUIPMENT.--The sample collector is a polyethelene funnel approximately 8 inches in diameter, which drains into a polyethelene container through an air lock created by looped tygon tubing. The opening for the collector is approximately 10 feet above ground level.

PERIOD OF RECORD.--June 1972 to current year.

REMARKS.--Inches of precipitation measured at the point of sampling for the reported period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ACCUMULATED RAINFALL (IN)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 01-31	2.4	.1	.4	.1	.6	.1	2	0	2	6.5	.2
NOV. 01-30	7.0	.2	.1	.1	.5	.0	0	0	0	2.3	.0
DEC. 01-31	7.8	.2	.1	.1	.3	.0	0	0	0	3.0	.5
JAN. 01-31	3.8	.0	.1	.0	.5	.0	1	0	1	2.5	.9
MAR. 01-31	3.4	.1	.2	.4	.4	.0	0	0	0	3.0	.7
APR. 01-30	6.4	.0	.2	.6	.4	.0	0	0	0	2.5	.5
MAY 01-31	5.5	.1	.2	.1	.2	.0	0	0	0	2.5	.5
JUNE 01-30	4.3	.0	.5	.1	.2	.2	0	0	0	3.3	.4
JULY 01-31	3.2	.0	.5	.1	.2	.2	0	0	0	8.3	27
AUG. 01-31	2.1	.0	.4	.0	.2	.1	0	0	0	2.2	.3
SEP. 01-30	1.8	.2	.6	.1	.5	.2	0	0	0	5.5	54

DATE	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 01-31	.0	.00	--	--	.98	10	1	0	16	5.2	20
NOV. 01-30	.0	.30	--	--	--	5	1	1	25	4.5	.0
DEC. 01-31	.0	.30	--	--	--	6	1	1	25	4.5	.0
JAN. 01-31	.0	.10	--	--	--	5	0	0	19	4.8	25
MAR. 01-31	.1	.30	--	.30	--	6	2	2	34	4.1	.0
APR. 01-30	.1	.29	.01	.30	--	6	3	3	24	4.3	.0
MAY 01-31	.2	.70	.00	.70	1.3	8	1	1	43	4.0	.0
JUNE 01-30	.2	.50	.00	.50	.37	5	2	2	32	4.3	.0
JULY 01-31	.3	1.1	.00	1.1	.57	37	2	2	389	4.8	.0
AUG. 01-31	.2	.41	.00	.41	--	3	1	1	30	4.8	.0
SEP. 01-30	.2	.86	.00	.86	1.2	61	2	2	504	3.0	.0

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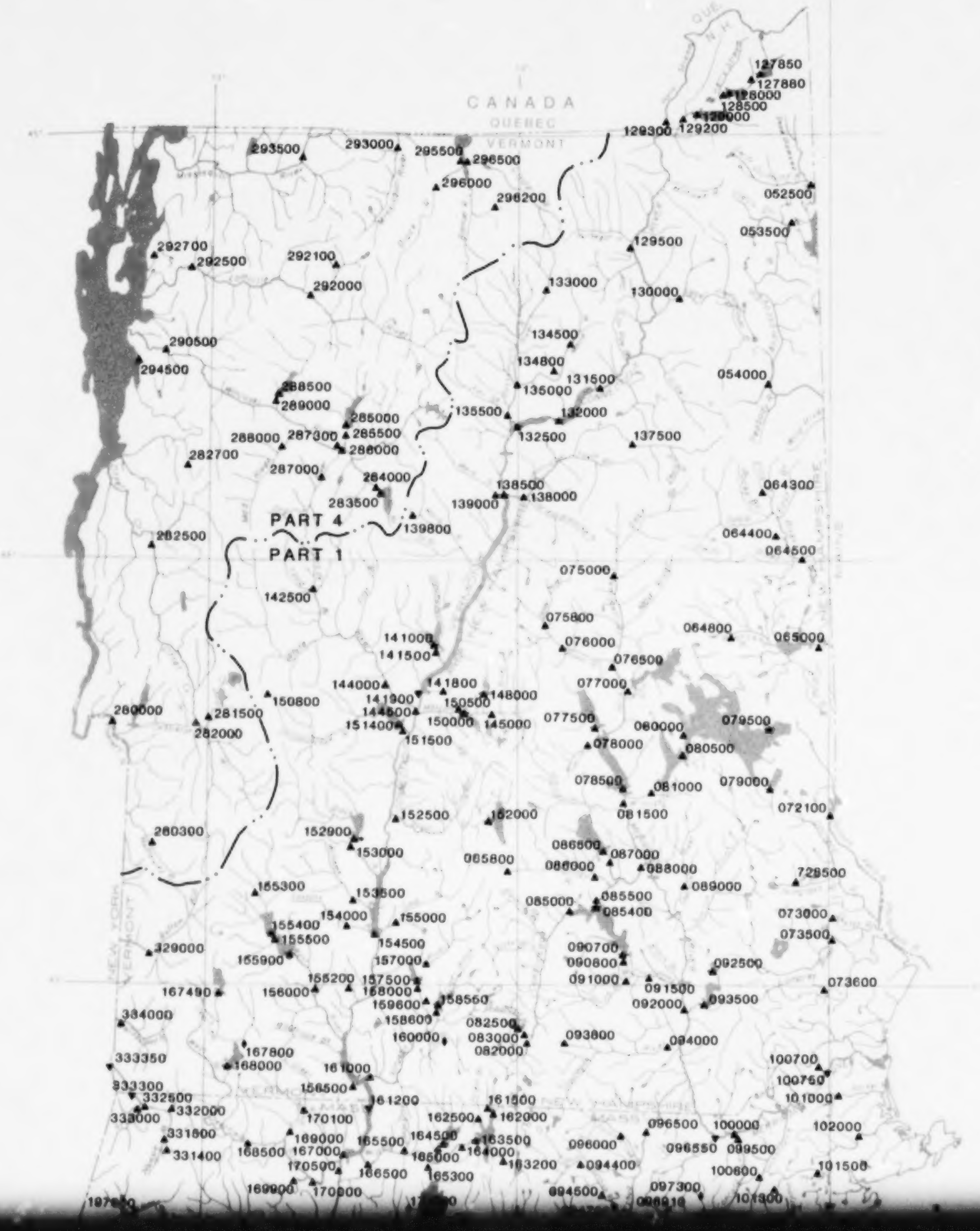
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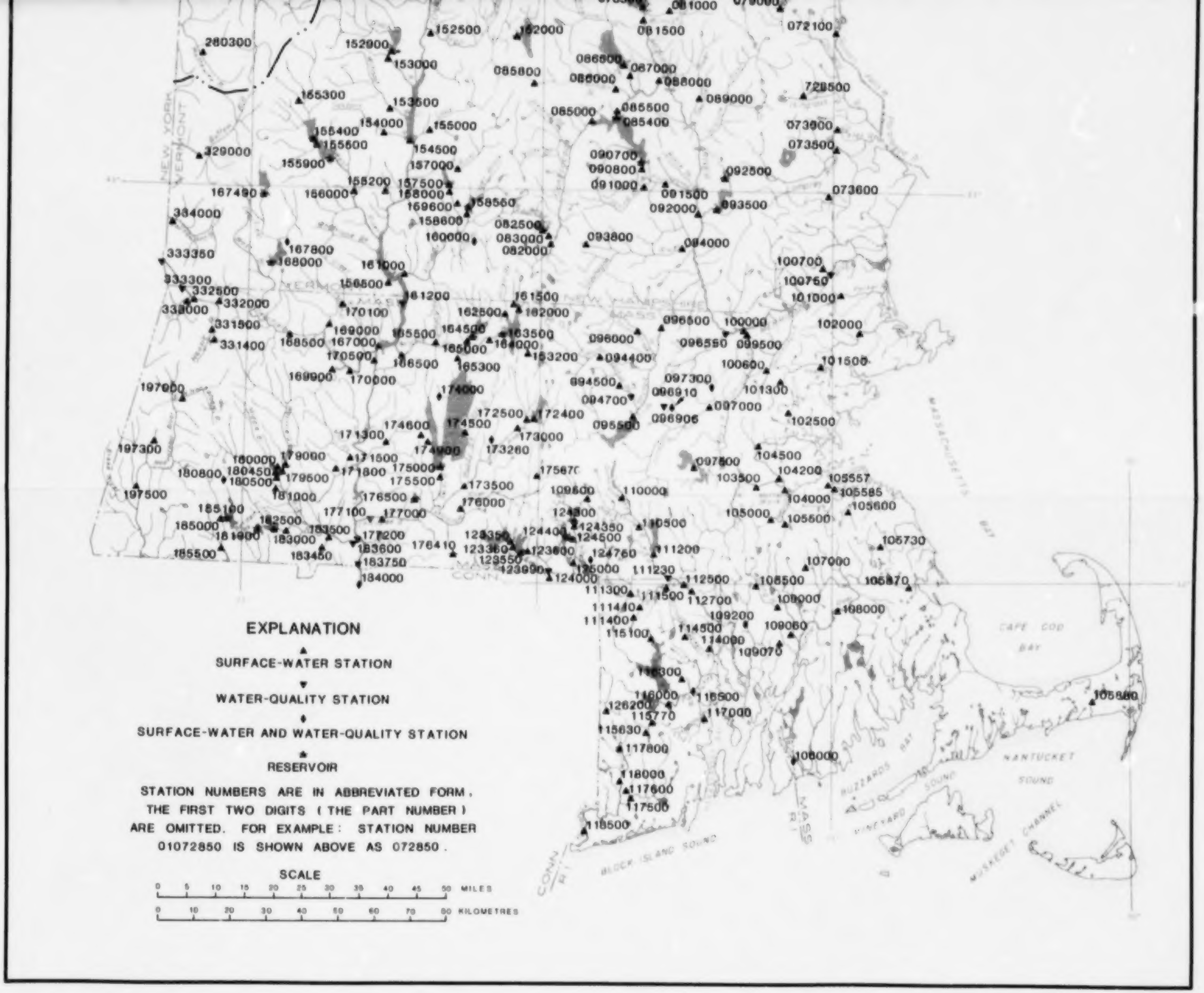
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CAPE COD BAY
BUZZARDS BAY
VINEYARD SOUND
NANTUCKET SOUND
MUSKEGET CHANNEL
BLOCK ISLAND SOUND
EXPLANATION
▲ SURFACE-WATER STATION
▼ WATER-QUALITY STATION
◆ SURFACE-WATER AND WATER-QUALITY STATION
RESERVOIR
STATION NUMBERS ARE IN ABBREVIATED FORM, THE FIRST TWO DIGITS (THE PART NUMBER) ARE OMITTED. FOR EXAMPLE: STATION NUMBER 01072850 IS SHOWN ABOVE AS 072850.
SCALE
0 5 10 15 20 25 30 35 40 45 50 MILES
0 10 20 30 40 50 60 70 80 KILOMETRES

PLATE 1. LOCATION OF SURFACE-WATER STATIONS AND WATER-QUALITY STATIONS